

From: Bowman, Amy
Sent: Tuesday, June 28, 2005 1:39 PM
To: STIC-Biotech/ChemLib
Cc: Bowman, Amy
Subject: sequence search-10/735,991

Hello,
I need SEQ ID NO: 5 in application 10/735,991 searched.
Thank you,
Amy Bowman
AU 1635
REM 2C31
571-272-0755

1014NA

Beverly shears

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Searcher: _____
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Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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Type of Search

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_____ A.A. Sequence
_____ Structure
_____ Bibliographic

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_____ IG
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_____ Dialog
_____ APS
_____ Geninfo
_____ SDC
_____ DARC/Questel
_____ Other CGN

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 5, 2005, 08:57:44 ; Search time 645 Seconds
(without alignments)
9306.384 Million cell updates/sec

Title: US-10-735-991-5

Sequence: 1 atgaactcgtgagcgcggg.....ttctgcctgtgtcgtgta 1014

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_16Dec04:*
1: geneseqn19808:*
2: geneseqn19908:*
3: geneseqn20008:*
4: geneseqn2001as:*
5: geneseqn2001bs:*
6: geneseqn2002as:*
7: geneseqn2002bs:*
8: geneseqn2003as:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004as:*
13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1014	100.0	1014	12	ADQ94493
2	1011	99.7	1011	12	ADQ94489
3	1010.8	99.7	1014	6	ABK47595
4	1009.2	99.5	7512	12	ADQ29763
5	1009.2	99.5	2530	13	ADQ89177
6	1009.2	99.5	2581	2	AAZ20034
7	1006.2	99.2	1728	10	ADT70549
8	986.8	97.3	1014	6	ABK73406
9	869.2	85.7	1011	12	ADQ29057
10	868.4	85.6	1172	12	ADQ94491
11	556.6	54.9	565	5	AAK58630
12	472.2	46.6	585	9	ACH39042
13	418.2	41.2	1092	5	AAK57950
14	418.2	41.2	1092	11	ADJ96477
15	416.6	41.1	5665	10	ABK24430
16	415	40.9	1092	3	AAK64108
17	415	40.9	1092	4	AAK59997
18	415	40.9	1092	4	AAK08865
19	415	40.9	1092	4	AAH73502
20	415	40.9	1092	5	AAK508268

21	415	40.9	1092	6	AAK26313	AAK26313 Human G-P
22	415	40.9	1092	8	ABA00881	ABA00881 Somatocsta
23	415	40.9	1092	11	ADJ96541	ADJ96541 Human mut
24	415	40.9	1092	11	ADK09774	ADK09774 Human the
25	415	40.9	1163	6	ABK41643	ABK41643 Human G-P
26	415	40.9	1188	4	AAK51105	AAK51105 Human ncp
27	415	40.9	1188	4	ABK70338	ABK70338 DNA encod
28	415	40.9	1352	6	ABK53077	ABK53077 Human DNA
29	415	40.9	1510	4	AAK46219	AAK46219 Human enco
30	415	40.9	1510	8	ACA89669	ACA89669 DNA enco
31	415	40.9	1510	8	ACA73679	ACA73679 Human sec
32	415	40.9	1510	8	ACA05994	ACA05994 Human sec
33	415	40.9	1510	8	ACA68828	ACA68828 DNA enco
34	415	40.9	1510	8	ACF20403	ACF20403 Human sec
35	415	40.9	1510	8	ACF19789	ACF19789 Human sec
36	415	40.9	1510	8	ACD22077	ACD22077 Human sec
37	415	40.9	1510	8	ACF13242	ACF13242 Human sec
38	415	40.9	1510	8	ACD25345	ACD25345 Human sec
39	415	40.9	1510	8	ACF00394	ACF00394 Human sec
40	415	40.9	1510	8	ACA72451	ACA72451 Novel hum
41	415	40.9	1510	8	ACD04975	ACD04975 Novel hum
42	415	40.9	1510	8	ACD18436	ACD18436 Human sec
43	415	40.9	1510	8	ACD08443	ACD08443 Human sec
44	415	40.9	1510	8	ACA88877	ACA88877 Novel hum
45	415	40.9	1510	8	ACA70319	ACA70319 Human sec

ALIGNMENTS

RESULT 1	
ADQ94493	ADQ94493 standard; cDNA; 1014 BP.
ID	
XX	ADQ94493:
AC	23-SEP-2004 (first entry)
DT	
XX	Human G-protein coupled receptor sequence 115 cDNA.
DE	
XX	
XX	anorectic; immunomodulator; gene therapy; body weight;
KW	mammalian sequence 115; obesity; cachexia; G protein coupled receptor;
KW	sequence 115; human; gene; ss.
XX	
OS	Homo sapiens.
XX	
PH	Key
FT	CDS
FT	Location/Qualifiers
FT	1..1014
FT	/tag= a
XX	/product= "Human G-protein coupled receptor sequence 115"
PN	US2004121395-A1.
XX	
PD	24-JUN-2004.
XX	
XX	15-DEC-2003; 2003US-00735991.
PF	
XX	
XX	23-DEC-2002; 2002US-0436375P.
PR	
XX	
PA	(GOOD/) GOODNOW R. A.
PA	(MARK/) MARK D F.
PA	(MART/) MARTIN M L.
PA	(ROSI/) ROSINSKI J A.
PI	Goodnow RA, Mark DF, Martin ML, Rosinski JA;
XX	
XX	WPI; 2004-468185/44.
DR	P-PSDB; ADQ94494.
XX	
PT	Identifying compounds, useful for modulating body weight and for treating
PT	obesity and cachexia, comprises contacting a test compound with a
PT	mammalian sequence 115.
XX	

CC binds to the mammalian sequence 115; and identifying a compound that
 CC binds to the mammalian sequence 115 as a compound useful for modulating
 CC body weight. Also described are: a pharmaceutical formulation or
 CC composition, for modulating body weight, comprising a compound that
 CC modulates the activity of a mammalian sequence 115, mixed with a
 CC pharmaceutical carrier; a package comprising the pharmaceutical
 CC formulation and instructions for administering the pharmaceutical
 CC formulation for modulating body weight; preparing a pharmaceutical
 CC composition useful for modulating body weight; treating obesity and
 CC cachexia; and an antibody that recognises an isolated polypeptide
 CC comprising a sequence of 1014 or 337 amino acids (SEQ ID NOS: 5 or 6).
 CC The method is useful for identifying compounds useful for modulating body
 CC weight. The formulation or composition and methods are useful for
 CC treating obesity and cachexia. This sequence encodes G protein coupled
 CC receptor sequence 115.
 CC
 SQ Sequence 1011 BP; 151 A; 363 C; 300 G; 197 T; 0 U; 0 Other;
 Query Match 99.7%; Score 1011; DB 12; Length 1011;
 Best Local Similarity 100.0%; Pred. No. 4e-172;
 Matches 1011; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGAAGCTGCTGGAGAGCGGGGCTTGGCGGCTAATGAGGAGATGGGCTGCTGCTG 60
 DB 1 ATGAAGCTGCTGGAGAGCGGGGCTTGGCGGCTAATGAGGAGATGGGCTGCTGCTG 60
 QY 61 CTGTCCAAAGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 DB 61 CTGTCCAAAGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 QY 121 CCGGCGCTTTCACCTTGAACCTTCACTGCGGGAACCTGCTGTGCAACCTGCTGCTGCTG 180
 DB 121 CCGGCGCTTTCACCTTGAACCTTCACTGCGGGAACCTGCTGTGCAACCTGCTGCTGCTG 180
 QY 181 CCGGCTGACGCTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 181 CCGGCTGACGCTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 QY 241 CTGGGCTGCTTCTGCTGCAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 241 CTGGGCTGCTTCTGCTGCAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 QY 301 AGCATTCACCGCTGGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 301 AGCATTCACCGCTGGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 QY 361 CGGAGCGGGGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 361 CGGAGCGGGGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 QY 421 GCGCTGCGCTG 480
 DB 421 GCGCTGCGCTG 480
 QY 481 CCGGCGGCGAAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
 DB 481 CCGGCGGCGAAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
 QY 541 TTCTG 600
 DB 541 TTCTG 600
 QY 601 TTCCATTGCAAGCGCATGCACTGATGCAAGCATGCAAGCATGCAAGCATGCAAGCATGCAAGCATG 660
 DB 601 TTCCATTGCAAGCGCATGCACTGATGCAAGCATGCAAGCATGCAAGCATGCAAGCATGCAAGCATG 660
 QY 661 CACCCAGTGTGCGGGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
 DB 661 CACCCAGTGTGCGGGAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
 QY 721 AAGAGATGACGACCTTATAGGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
 DB 721 AAGAGATGACGACCTTATAGGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780

QY 781 AGGCTAGTGAAGCTTCTTCTTCACGCTGCGCATGCGGCTTCCACTGCGGAGGCTGCTGCAAG 840
 DB 781 AGGCTAGTGAAGCTTCTTCTTCACGCTGCGCATGCGGCTTCCACTGCGGAGGCTGCTGCAAG 840
 QY 841 TGCTTGGCGTACACCAAGCGCGCATCCGACCCCTTTGTGTACTCTTAATGCGACACAG 900
 DB 841 TGCTTGGCGTACACCAAGCGCGCATCCGACCCCTTTGTGTACTCTTAATGCGACACAG 900
 QY 901 TACCGCAAAAGCTGCAAGAGATTCTGAACAGGCTCTGCAAGAGCGCTCCATCCATCC 960
 DB 901 TACCGCAAAAGCTGCAAGAGATTCTGAACAGGCTCTGCAAGAGCGCTCCATCCATCC 960
 QY 961 TCTGCGCTTCAAGCGGCACTCTCAAGCGCAAGCAATTCGCGGTGTGAG 1011
 DB 961 TCTGCGCTTCAAGCGGCACTCTCAAGCGCAAGCAATTCGCGGTGTGAG 1011

RESULT 3
 ABR47595
 ID ABR47595 standard; cDNA; 1014 BP.
 AC ABR47595;
 XX
 DT 18-JUN-2002 (first entry)
 XX
 DE cDNA encoding human G protein coupled receptor AXOR49 protein.
 XX
 KW Human; G protein coupled receptor AXOR49; receptor; bacterial infection;
 KW viral infection; fungal infection; protozoal infection; pain; cancer;
 KW tumour; HIV; human immunodeficiency virus; diabetes; Parkinson's disease;
 KW heart failure; allergy; vaccine; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..1014
 FT /*tag= a
 FT /product= "Human G protein coupled receptor AXOR49"
 XX
 PN GB2364057-A.
 XX
 PD 16-JAN-2002.
 XX
 PF 03-APR-2001; 2001GB-00008242.
 XX
 PR 04-APR-2000; 2000US-00542981.
 XX
 PA (SMIK) SMITHKLINE BEECHAM CORP.
 PA (SMIK) SMITHKLINE BEECHAM PLC.
 XX
 PI Elshourbagy N;
 XX
 DR WPI; 2002-306798/35.
 DR P-PSDB; AAU78644.
 XX
 PT New G protein-coupled receptor AXOR49, useful for diagnosis and treatment
 of e.g. infections and cancer.
 PS
 PS Claim 2; Page 27; 34p; English.
 XX
 CC The present invention relates to a new polypeptide encoded by a
 CC polynucleotide comprising a fully defined sequence of 1014 base pairs, as
 CC given in the specification. The polypeptide of the invention comprises a
 CC sequence at least 95% identical to a fully defined sequence of 337 amino
 CC acids as given in the specification, or a fragment or variant. The
 CC polypeptide, a putative G protein-coupled receptor designated AXOR49, and
 CC the nucleic acid that encodes it are useful for treating a very wide
 CC range of diseases, e.g. infections (bacterial, viral, fungal or
 CC protozoal), especially human immune deficiency virus-1 or -2; pain,
 CC cancer, diabetes, Parkinson's diseases, heart failure and allergy. The
 CC molecules of the invention can also be used to diagnose (susceptibility
 CC to) diseases (including detecting mutations or measuring mRNA or protein

CC levels) associated with inappropriate activity or levels of AXOR49, to
CC screen for (ant)agonists, potential therapeutic agents and in vaccines.
CC The present nucleic acid sequence encodes the human G protein coupled
CC receptor AXOR49 protein of the invention
XX
SQ Sequence 1014 BP; 151 A; 364 C; 301 G; 198 T; 0 U; 0 Other;

Query Match 99.7%; Score 1010.8; DB 6; Length 1014;
Best Local Similarity 99.8%; Pred. No. 4,4e-172;
Matches 1012; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGAACCTGCTGGAGACGGGCGCTTGGCGGCTACTGGTGGGACAGATGGCGCTTCGCTG 60
DB 1 ATGAACCTGCTGGAGACGGGCGCTTGGCGGCTACTGGTGGGACAGATGGCGCTTCGCTG 60
QY 61 CTGTCCAAACGGCGCTGGTGGCTGTGCTGTGCTGCAACCGGACATCCGCCGACAGGCG 120
DB 61 CTGTCCAAACGGCGCTGGTGGCTGTGCTGTGCTGCAACCGGACATCCGCCGACAGGCG 120
QY 121 CCGGCGCTCTTCAACCTGAACTTCACTGCGGGAACCTGTGTGCAACCGTGTCAATG 180
DB 121 CCGGCGCTCTTCAACCTGAACTTCACTGCGGGAACCTGTGTGCAACCGTGTCAATG 180
QY 181 CCGCTCACGCTGGCGCGCTGTGTGGCGACAGCGCGCGGCGACCGCTGTGCGCG 240
DB 181 CCGCTCACGCTGGCGCGCTGTGTGGCGACAGCGCGCGGCGACCGCTGTGCGCG 240
QY 241 CTGGGCTCCTTCCCTGCAACCTTCTGTGCTGCAACCTGCTGCTGCTGCTGCTGCTG 300
DB 241 CTGGGCTCCTTCCCTGCAACCTTCTGTGCTGCAACCTGCTGCTGCTGCTGCTGCTG 300
QY 301 AGCATGACCGCTGGTGGTGGCGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 AGCATGACCGCTGGTGGTGGCGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 CCGGACCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 CCGGACCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 GCGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
DB 421 GCGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
QY 481 CCGGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
DB 481 CCGGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
QY 541 TTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
DB 541 TTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
QY 601 TTTCATTGCAAGCGCATGCACTGATGCACTGATGCACTGATGCACTGATGCACTGATG 660
DB 601 TTTCATTGCAAGCGCATGCACTGATGCACTGATGCACTGATGCACTGATGCACTGATG 660
QY 661 CACCCAGTGTGCGGGAACGCTGTCTGTGAGGAGCAAGACGGAAGCGGACGACGCAACC 720
DB 661 CACCCAGTGTGCGGGAACGCTGTCTGTGAGGAGCAAGACGGAAGCGGACGACGCAACC 720
QY 721 AAGAAGATCAGACCTTCTATAGGGAACCTTCTTGTGTGCTTGTGTGCTTGTGTGCTTGT 780
DB 721 AAGAAGATCAGACCTTCTATAGGGAACCTTCTTGTGTGCTTGTGTGCTTGTGTGCTTGT 780
QY 781 AGGCTAGTGGAGCTCTTCTCAGCGGTGCGCATCGGCTCCACTGGGGGTGTCTGTCAAG 840
DB 781 AGGCTAGTGGAGCTCTTCTCAGCGGTGCGCATCGGCTCCACTGGGGGTGTCTGTCAAG 840
QY 841 TGCTTGGCTTACAGCAAGCGCGCATCCGACCCCTTGTGTGCTTGTGTGCTTGTGTGCTTGT 900
DB 841 TGCTTGGCTTACAGCAAGCGCGCATCCGACCCCTTGTGTGCTTGTGTGCTTGTGTGCTTGT 900
QY 901 TACCGCAAAAGCTGCAAGGAGATTGTGAACGCTTCTGCAAGACGCTCATCATCTCC 960
DB 901 TACCGCAAAAGCTGCAAGGAGATTGTGAACGCTTCTGCAAGACGCTCATCATCTCC 960

DB 901 TACCGCAAAAGCTGCAAGGAGATTGTGAACGCTTCTGCAAGACGCTCATCATCTCC 960
QY 961 TCTGGGCTTACAGCAAGCGCGCATCTTCAACGCAAGCAATTTCTGCTGTGATGCA 1014
DB 961 TCTGGGCTTACAGCAAGCGCGCATCTTCAACGCAAGCAATTTCTGCTGTGATGCA 1014

RESULT 4
AD029763
ID AD029763 standard; cDNA; 7512 BP.
XX
AC AD029763;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human novel GPCR GPR26 polynucleotide, SEQ ID NO:865.
XX
KW G protein-coupled receptor; GPCR; drug screening; diagnosis;
KW transgenic mouse; neurological disorder; adrenal gland disorder;
KW colon disorder; intestinal disorder; cardiovascular disorder;
KW muscular disorder; blood disorder; immune disorder; bone disorder;
KW joint disorder; metabolic disorder; nutritive disorder; cancer;
KW kidney disorder; liver disorder; lung disorder; breast disorder;
KW ovary disorder; uterus disorder; prostate disorder; testis disorder;
KW skin disorder; stomach disorder; pancreas disorder; spleen disorder;
KW thymus disorder; thyroid disorder; vasotrophic; antihypertensive;
KW CYS; central nervous system; respiratory; antidiabetic; antidiabetic;
KW virulence; hepatotropic; antibacterial; antianemic; antiseborrheic;
KW dermatological; antihistamine; antihistamine; anorectic;
KW immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human;
KW gene; ss.
XX
OS Homo sapiens.
XX
PN NO200404000-A2.
XX
PD 13-MAY-2004.
XX
PF 09-SEP-2003; 2003MO-US028226.
XX
PR 09-SEP-2002; 2002US-0409303P.
PR 09-APR-2003; 2003US-0461329P.
XX
PA (PRIM-) PRIMAL INC.
XX
PI Galitarsis GA, Bergmann JE, Gragerov A, Hohmann J, Li F;
XX Medisen L, McIlwain KL, Pavlova MN, Vasiliadis D, Zeng H;
XX WPI; 2004-390329/36.
XX P-PSDB; ADO29055.
XX
PT Novel mammalian G protein coupled receptors, useful for identifying
PT compounds that modulates diagnosing and treating disease condition
PT associated with GPCR dysfunction e.g. autoimmune diseases, angina
PT pectoris, Parkinson's disease.
XX
PS Claim 13; SEQ ID NO 865; 542pp; English.
XX
CC The invention relates to human and mouse G protein-coupled receptors
CC (GPCRs) and nucleic acids encoding them. The invention also relates to
CC sequences at least 90% identical to the GPCR proteins and nucleic acids
CC of the invention; methods of treating, preventing or diagnosing diseases
CC associated with GPCRs of the invention; methods of screening for
CC compounds useful in the treatment of GPCR-related diseases; a transgenic
CC mouse comprising a GPCR gene of the invention; a mouse comprising a
CC mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
CC from the transgenic mice; kits comprising several mice, each of which has
CC a mutation in a different GPCR gene of the invention; and kits comprising
CC probes which hybridize to GPCR polynucleotides of the invention. The
CC invention further discloses variants of the GPCR polypeptides and vectors
CC comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
CC be used in the diagnosis, treatment or prevention of a wide variety of

urological disorder, identifying a subject having a urological disorder, or treating a subject having a urological disorder. Also described: (1) a method for identifying a compound capable of treating a urological disorder; (2) a method for identifying a subject having a urological disorder; and (3) a method for treating a subject having a urological disorder. The compound has uropathic and cyrostatic activities. The polypeptides related to urological disorders are useful for identifying a compound capable of treating a urological disorder, identifying a subject having a urological disorder, or treating a subject having a urological disorder. Disorders include urinary incontinence and benign prostatic hyperplasia. The present sequence encodes a human urological disorder related protein, which is used in the exemplification of the present invention.

SQ Sequence 2530 BP; 487 A; 724 C; 739 G; 577 T; 0 U; 3 Other;

Query Match	99.5%	Score	1009.2	DB	13	Length	2530	
Best Local Similarity	99.7%	Pred. No.	8.7e-172					
Matches 1011	Conservative	0	Mismatches	3	Indels	0	Gaps	0

QY	1	TTGAAGCTGTTGGAGAGCGGAGCCTGGACGGGGCTACTGTTGGAGACACATGGAGCCTTCGCTG	60
Db	186	ATGAAGCTGTGGAGAGCGGAGCCTGGACGGGGCTACTGTTGGAGACACATGGAGCCTTCGCTG	245
QY	61	CTGTCCAACGCGCTGTGTGTCTGTCTGTGCTGTGCAACAGCGGAGACATCCGCGCCAGAGCG	120
Db	246	CTGTCCAACGCGCTGTGTGTCTGTCTGTGCTGTGCAACAGCGCGGAGACATCCGCGCGCAGAGCG	305
QY	121	CCGGGCGCTTCTTCACCCCTTGAACCTTCAACGTGCGGGAAACGTGTGTGACCCGTGTGCAACAG	180
Db	306	CCGGGCGCTTCTTCACCCCTTGAACCTTCAACGTGCGGGAAACGTGTGTGACCCGTGTGCAACAG	365
QY	181	CCGCTCAACGCTGAGCGGAGCTGTGAGCGAGCGAGCGAGCCGGCGAGCGACCGCCTGTGACCG	240
Db	366	CCGCTCAACGCTGAGCGGAGCTGTGAGCGAGCGAGCGAGCCGGCGAGCGACCGCCTGTGACCG	425
QY	241	CTGGCTGCTTCTTCGACACTTCTCTGTGTGCAACTCATGTCTACAGATGGCCGCGCTC	300
Db	426	CTGGCTGCTTCTTCGACACTTCTCTGTGTGCAACTCATGTCTACAGATGGCCGCGCTC	485
QY	301	AGCATCGACCGTGTGGGTGGCGGTGTCTCCGCTGAGGTACCGGGCCAAAGATGGCGCTC	360
Db	486	AGCATCGACCGTGTGGGTGGCGGTGTCTCCGCTGAGGTACCGGGCCAAAGATGGCGCTC	545
QY	361	CGCGACGCGGCGCTATGATGTGAGCTCAACAGTGGCTGCAAGCGCTCACTTTCACGCGCGC	420
Db	546	CGCGACGCGGCGCTATGATGTGAGCTCAACAGTGGCTGCAAGCGCTCACTTTCACGCGCGC	605
QY	421	GCGCTGCGCTTGTCTGTGCTCGGCTTTCACACAGCTGTACGCTCTGTGCAACGCTGTGACAG	480
Db	606	GCGCTGCGCTTGTCTGTGCTCGGCTTTCACACAGCTGTACGCTCTGTGCAACGCTGTGACAG	665
QY	481	CGGCGGCGAAGAGAGCGCTGCGCTTGGCGGTTCACATGAGGCGCTTTCACAGCTGTACAG	540
Db	666	CGGCGGCGAAGAGAGCGCTGCGCTTGGCGGTTCACATGAGGCGCTTTCACAGCTGTACAG	725
QY	541	TTTCTGCTCTCTTGTGTGTGTGCTGTGCTGCTGACAGTACCTCAAGGTGTCAAGGTGACCGC	600
Db	726	TTTCTGCTCTCTTGTGTGTGTGCTGTGCTGCTGACAGTACCTCAAGGTGTCAAGGTGACCGC	785
QY	601	TTTCCATTTCAGAGCGATGACGTGTACCACTATGACAGACGCTGTGTGTCTGTGTGACCTTG	660
Db	786	TTTCCATTTCAGAGCGATGACGTGTACCACTATGACAGACGCTGTGTGTGTGTGACCTTG	845
QY	661	CACCCCAAGTGTGGGGAAGCGTGTCTGTGAGAGGAGAGAAACGGAGGGGACAGAGGAGCACG	720
Db	846	CACCCCAAGTGTGGGGAAGCGTGTCTGTGAGAGGAGAGAAACGGAGGGGACAGAGGAGCACG	905
QY	721	AAGAAGATCAGACCTTTCATAGAGACCTTCTTGTGTGCTTGTGCGCCCTATGTGATCACC	780
Db	906	AAGAAGATCAGACCTTTCATAGAGACCTTCTTGTGTGCTTGTGCGCCCTATGTGATCACC	965
QY	781	AGGCTAGTGAAGCTTCTTCCACAGGTGCCATTCGCTCCCATGAGGGGTGCTGTCCAG	840

Dd	966	AGGCTAGTGAAGCTCTTCTCCAGCGTCCATCGGCTCCACTGGGGGGTGTCTCCAG	1025
Qy	841	TGCTTGGCGTACACAAAGCGCGCATCCGACCCCTTGTGACTCTTATCGCACACAG	900
Dd	1026	TGCTTGGCGTACACAAAGCGCGCATCCGACCCCTTGTGACTCTTATCGCACACAG	1085
Qy	901	TACCGCAAAAGCTTCAAGAGATTCTGAACAGGCTCTCGACAGACGCTCCATCCACTCC	960
Dd	1086	TACCGCAAAAGCTTCAAGAGATTCTGAACAGGCTCTCGACAGACGCTCCATCCACTCC	1145
Qy	961	TCTGGCTTCACAGCGCACTCTCACAGCCAGAACTTTCGCCGTGTGAAGTGA	1014
Dd	1146	TCTGGCTTCACAGCGCACTCTCACAGCCAGAACTTTCGCCGTGTGAAGTGA	1199

RESULT 6
AAZ00034
ID AAZ00034 standard; cDNA; 2581 BP.

XX	AA200034;
AC	12-OCT-1999 (first entry)
DT	G protein coupled receptor fln2882 gene.
DE	G protein coupled receptor; fln2882; brain; signal transduction;
XX	transmembrane domain; ss.
KW	Homo sapiens.
XX	
OS	
XX	
FH	Key Location/Qualifiers
FT	CDS 184..1197
FT	/tag= a
FT	/product= "fln2882"
FT	/note= "G protein coupled receptor"
PN	WO937679-A1.
PD	29-JUL-1999.
XX	
PF	20-JAN-1999; 99WO-US001128.
XX	
PR	26-JAN-1998; 98US-00013634.
XX	
PA	(MILL-) MILLENNIUM PHARM INC.
PI	Glucksmann MA, Robison K;
XX	
DR	WPI; 1999-469116/39.
DR	P-PBDB; AAY28488.
PT	A new G protein-coupled receptor gene, fln2882, useful for identifying
PT	homologues and allelic variants.
PS	Claim 1; Fig 1; 80pp; English.
CC	The sequence is the G protein coupled receptor fln2882 gene. The fln2882
CC	protein AAY28488 is expressed predominantly in the brain and is 337 amino
CC	acids in length. The protein has seven transmembrane domains, AAY28489-
CC	Y28495. The type of response mediated by the fln2882 protein is dependent
CC	on the type of cell in which it is expressed eg. binding of ligand to
CC	fln2882 may result in adhesion migration or differentiation. Regardless
CC	"G protein". The fln2882 protein and gene are useful for isolating
CC	compounds that modulate expression of or bind and interact with fln2882.
CC	They can also be used to identify homologues and allelic variants
SQ	Sequence 2581 BP; 499 A; 740 C; 753 G; 589 T; 0 U; 0 Other;
Query Match	99.5%; Score 1009.2; DB 2; Length 2581;
Best Local Similarity	99.7%; Pred. No. 8.7e-173;
Matches 1011; Conservative	0; Mismatches 3; Indels 0; Gaps 0


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QY 1 ATGAACCTGCTGGGAGACGGGGGCTGAGGAGGAGTGGGAGACAGATGAGGAGCTCTCGTG 60
DB 184 ATGAACCTGCTGGGAGACGGGGGCTGAGGAGGAGTGGGAGACAGATGAGGAGCTCTCGTG 243
QY 61 CTGTCCAAACGGGCTGTGCTGTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 120
DB 244 CTGTCCAAACGGGCTGTGCTGTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 303
QY 121 CCGGCGCTCTTCAACCTGAACTCAAGTGGGAACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 180
DB 304 CCGGCGCTCTTCAACCTGAACTCAAGTGGGAACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 363
QY 181 CCGCTACAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 240
DB 364 CCGCTACAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 423
QY 241 CTGGCTGCTCTTCCCTGACACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 300
DB 424 CTGGCTGCTCTTCCCTGACACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 483
QY 301 AGCATGACCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 360
DB 484 AGCATGACCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 543
QY 361 CCGGACCGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 420
DB 544 CCGGACCGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 603
QY 421 GCGCTGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 480
DB 604 GCGCTGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 663
QY 481 CCGGCGGACGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 540
DB 664 CCGGCGGACGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 723
QY 541 TTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 600
DB 724 TTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 783
QY 601 TTTCATTGCAAGGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 660
DB 784 TTTCATTGCAAGGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 843
QY 661 CACCCCACTGTGCGGAGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 720
DB 844 CACCCCACTGTGCGGAGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 903
QY 721 AAGAAGATGACACCTTCAATGAGGACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 780
DB 904 AAGAAGATGACACCTTCAATGAGGACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 963
QY 781 AGGCTAGTGAAGCTCTTCTCAAGGAGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 840
DB 964 AGGCTAGTGAAGCTCTTCTCAAGGAGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1023
QY 841 TGTGTGCTGTGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 900
DB 1024 TGTGTGCTGTGACGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1083
QY 901 TACCGCAAAAGCTGTGACGAGATTTCTGAAACAGGCTCTGTGCAAGAGCTCATATCCTCC 960
DB 1084 TACCGCAAAAGCTGTGACGAGATTTCTGAAACAGGCTCTGTGCAAGAGCTCATATCCTCC 1143
QY 961 TCTGCGCTTCAAGGACGCTGTGACAGCAAACTTGTGCGGCTGTGTGAGTGA 1014
DB 1144 TCTGCGCTTCAAGGACGCTGTGACAGCAAACTTGTGCGGCTGTGTGAGTGA 1197

```

RESULT 7
ADP70549
ID ADP70549 standard; DNA; 1728 BP.

```

XX AC ADP70549;
XX AC 12-FEB-2004 (first entry)
XX DT Orphan receptor ligand-related human protein gene Segrid172.
XX DE ligand; orphan receptor protein; fusion protein; fluorescent protein;
XX KW cell expression; green fluorescent protein; GFP; GFP-1; wild-type GFP;
XX KW GFPuv; Enhanced GFP; EGFP; human; gene; de.
XX OS Homo sapiens.
XX PN W02003071272-A1.
XX PP 28-AUG-2003.
XX PP 21-FEB-2003; 2003MO-JP001901.
XX PR 22-FEB-2002; 2002JP-00045728.
XX PR 23-JUL-2002; 2002JP-00213949.
XX PR 11-OCT-2002; 2002JP-00298237.
XX PA (TAKE ) TAKEDA CHEM IND LTD.
XX PI Hinuma S, Fujii R, Ogi K, Komatsu H, Kawamata Y, Hosoya M;
XX WPI; 2003-697654/66.
XX DR P-PSDB; ADP70447.
XX XX
XX XX Transformation of cells with a fusion protein of an orphan receptor
XX PT protein with a fluorescent protein useful for identification of ligands
XX PS to the orphan receptor.
XX PS Example 4; SEQ ID NO 172; 594bp; Japanese.
XX XX
XX CC This invention relates to a novel method of identifying ligands to an
XX CC orphan receptor protein which comprises transforming cells with DNA
XX CC encoding a fusion protein of the orphan receptor with a fluorescent
XX CC protein, so that the fusion protein is expressed in the cells (or cell)
XX CC membranes isolated from them) and contacting the cells with the potential
XX CC ligand to be tested. A suitable fluorescent protein for incorporation in
XX CC the fusion protein is green fluorescent protein (GFP), for example GFP-1,
XX CC wild-type GFP, GFPuv or Enhanced GFP (EGFP). The method is useful for the
XX CC identification of ligands binding to an orphan receptor protein.
XX SQ Sequence 1728 BP; 382 A; 521 C; 452 G; 373 T; 0 U; 0 Other;

Query Match 99.2%; Score 1006.2; DB 10; Length 1728;
Best Local Similarity 99.7%; Pred. No. 3e-171; 3; Indels 0; Gaps 0;
Matches 1008; Conservative 0; Mismatches 3;

QY 1 ATGAACCTGCTGGGAGACGGGGGCTGAGGAGGAGTGGGAGACAGATGAGGAGCTCTCGTG 60
DB 1 ATGAACCTGCTGGGAGACGGGGGCTGAGGAGGAGTGGGAGACAGATGAGGAGCTCTCGTG 60
QY 61 CTGTCCAAACGGGCTGTGCTGTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 120
DB 61 CTGTCCAAACGGGCTGTGCTGTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 120
QY 121 CCGGCGCTCTTCAACCTGAACTCAAGTGGGAACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 180
DB 121 CCGGCGCTCTTCAACCTGAACTCAAGTGGGAACTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 180
QY 181 CCGCTACAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 240
DB 181 CCGCTACAGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 240
QY 241 CTGGCTGCTCTTCCCTGACACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 300
DB 241 CTGGCTGCTCTTCCCTGACACCTTCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 300
QY 301 AGCATGACCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 360

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Dp	301	AGCATGACGCGCTGGGGTGGCCCGGGCTTCCTCCGCTGACCTACCGGGCCAMAGATCGCCTC	360
Qy	361	CGGACGCGCGCGCTCATGCTGGGCTTACAAGTGGCTGACAGCGCTCACCTTCCAGCGCC	420
Dp	361	CGGACGCGCGCGCTCATGCTGGGCTTACAAGTGGCTGACAGCGCTCACCTTCCAGCGCC	420
Qy	421	GGCGCTGGCCTGTCTCTGGCTGGGCTTCCACAGCTGTATGCGCTGTGTGACGCTGTGACG	480
Dp	421	GGCGCTGGCCTGTCTCTGGCTGGGCTTCCACAGCTGTATGCGCTGTGTGACGCTGTGACG	480
Qy	481	CGGCGGCGGACGACGAGGCGCTGGGCGTTGGCGGCTTCACTGGAGCGCTTCAAGCGCTCAGC	540
Dp	481	CGGCGGCGGACGACGAGGCGCTGGGCGTTGGCGGCTTCACTGGAGCGCTTCAAGCGCTCAGC	540
Qy	541	TTCTGTGCTCTCTTCGTGTGCTCTTCTGTGACGTATCAAGAGTGTCAAGTGGGCCCGC	600
Dp	541	TTCTGTGCTCTCTTCGTGTGCTCTTCTGTGACGTATCAAGAGTGTCAAGTGGGCCCGC	600
Qy	601	TTTCATTGGCAAGGCGCATTCGACGTGATCACATGACAGAGCGTGTGTCTGTGTGGAACTTG	660
Dp	601	TTTCATTGGCAAGGCGCATTCGACGTGATCACATGACAGAGCGTGTGTGTGGAACTTG	660
Qy	661	CACCCACAGTGTGGGGAAAGCTGTCTGGAGGAGCAAGAGCGGAGCGACAGCGCCACC	720
Dp	661	CACCCACAGTGTGGGGAAAGCTGTCTGGAGGAGCAAGAGCGGAGCGACAGCGCCACC	720
Qy	721	AAGAAAGTACGACCTTTCATATAGGGAAGCTTCTGTGTCTTTCGCGCCCTATGTGATCAC	780
Dp	721	AAGAAAGTACGACCTTTCATATAGGGAAGCTTCTGTGTCTTTCGCGCCCTATGTGATCAC	780
Qy	781	AGGCTATGTGAGCTCTTCTTCACAGGTGGCCCATCGGCTCCCATGGGGGGTGTCTCCAG	840
Dp	781	AGGCTATGTGAGCTCTTCTTCACAGGTGGCCCATCGGCTCCCATGGGGGGTGTCTCCAG	840
Qy	841	TGCTGTGGCGTACAGCAAGGCGGATCCGACCCCTTGTGTACTCTTATCTCGACACAG	900
Dp	841	TGCTGTGGCGTACAGCAAGGCGGATCCGACCCCTTGTGTACTCTTATCTCGACACAG	900
Qy	901	TACCGCAAAAAGCTGCAAGAGATTTCTGAAACAGGCTCTGTGACAGAGCGCTTCATCCACTCC	960
Dp	901	TACCGCAAAAAGCTGCAAGAGATTTCTGAAACAGGCTCTGTGACAGAGCGCTTCATCCACTCC	960
Qy	961	TTGTGGCTTCACAGGCGCACTTCAACAGCGAAGCAATTTGCGGGGTCTGTAG 1011	
Dp	961	TTGTGGCTTCACAGGCGCACTTCAACAGCGAAGCAATTTGCGGGGTCTGTAG 1011	

RESULT 8	
AB573406	
ID	AB573406 standard; cDNA; 1014 BP.
XX	
XX	
AC	AB573406;
XX.	
DT	04-DEC-2002 (first entry)
XX	
DE	cDNA encoding human GPCR GPR26.
XX	
KW	Human; transmembrane receptor; G-protein coupled receptor; GPCR; allergy;
KW	hypertension; reflux disease; depression; migraine; schizophrenia; ulcer;
KW	psychotic disorder; asthma; bronchospasm; anaesthesia;
KW	myocardial infarction; MI; stroke; glaucoma; anxiety;
KW	prostatic hyperplasia; epilepsy; prostate cancer; rhinitis; angina;
KW	prostatic hypertrophy; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	W0200268600-A2.
XX	
PD	06-SEP-2002.
XX	
PF	26-FEB-2002; 2002WO-US005625.
XX	

Query Match	97.3%	Score 986.8	DB 6	Length 1014
Best Local Similarity	98.3%	Pred. No. 8.7e-168		
Matches 997	Conservative 0	Mismatches 17	Indels 0	Gaps 0
XX 26-FEB-2001; 2001US-0271913P.				
XX (AREN-) ARENA PHARM INC.				
XX l1aw CW, Chalmers DT, Behan DP, Maciejewski-Lenior D, Leonard JN;				
XX Lin I, Ortuno D;				
XX MPI: 2002-706980/76.				
XX P-PSDB; ABG95179.				
XX New human G-protein coupled receptor (GPCR), useful for screening agonist				
XX or inverse agonist compounds for treating diseases associated with GPCR.				
XX Example 1; Page 198-199; 201pp; English.				
XX The present invention relates to transmembrane receptors, particularly				
XX CC endogenous human G-protein coupled receptors (GPCRs), mutant (non-				
XX CC endogenous) versions of the GPCRs, and the polynucleotide sequences				
XX CC encoding them. The GPCRs are useful for screening agonist or inverse				
XX CC agonist compounds for treating diseases associated with GPCR. Diseases				
XX CC that can be treated with such compounds include allergies, hypertension,				
XX CC reflux disease, depression, migraine, schizophrenia, ulcers, psychotic				
XX CC disorders, asthma, bronchospasm, anesthesia, myocardial infarction (MI),				
XX CC stroke, glaucoma, prostatic hyperplasia, epilepsy, prostate cancer,				
XX CC anxiety, prostatic hypertrophy, rhinitis, and angina. The present				
XX CC sequence encodes an endogenous human GPCR				
XX SQ Sequence 1014 BP; 153 A; 364 C; 298 G; 199 T; 0 U; 0 Other;				
XX Query Match 97.3%; Score 986.8; DB 6; Length 1014;				
XX Best Local Similarity 98.3%; Pred. No. 8.7e-168;				
XX Matches 997; Conservative 0; Mismatches 17; Indels 0; Gaps 0;				
QY 1 ATGAACCTGTGGAGACCGGCGCTTACCTGCTGTGGGACAGATGGCGCTCCGCTG 60				
DB 1 ATGAACCTGTGGAGACCGGCGCTTACCTGCTGTGGGACAGATGGCGCTCCGCTG 60				
QY CTGTCCACACGGCGCTGTGTCTCTGTGCTGTGCACACGCGGACATCCGCGCCAGCGG 120				
DB 61 CTGTCCACACGGCGCTGTGTCTCTGTGCTGTGCACACGCGGACATCCGCGCCAGCGG 120				
QY 121 CCGGCGCTCTTACCCCTGAACCTCACGTGGCGGAACTGTGTGCAACCGTGGTCAACATG 180				
DB 121 CCGGCGCTCTTACCCCTGAACCTCACGTGGCGGAACTGTGTGCAACCGTGGTCAACATG 180				
QY 181 CCGCTCAACGCTGCGCGCGCTGTGTGGCGGACGCGGCGGCGGACCGCGCTGTGGCGG 240				
DB 181 CCGCTCAACGCTGCGCGCGCTGTGTGGCGGACGCGGCGGCGGACCGCGCTGTGGCGG 240				
QY 241 CTGGCTGACCTTCTGTGACACCTTCTGTGCTGTGCACATCATATGCTCAGATGGCGCGCTC 300				
DB 241 CTGGCTGACCTTCTGTGACACCTTCTGTGCTGTGCACATCATATGCTCAGATGGCGCGCTC 300				
QY 301 AGCATCGACCGCTGGGTGGCGGTGTCTTCCGCTGAGCTTACCGGCGCAAGATGGCGCTC 360				
DB 301 AGCATCGACCGCTGGGTGGCGGTGTCTTCCGCTGAGCTTACCGGCGCAAGATGGCGCTC 360				
QY 361 CGGACGCGGGGCTATATGTGGCTCAACAGTGGCTGACACGCGGCTACCTTCCCAACCGCGC 420				
DB 361 CGGACGCGGGGCTATATGTGGCTCAACAGTGGCTGACACGCGGCTACCTTCCCAACCGCGC 420				
QY 421 GCGCTGCGCCGTCTCTGTGCTGCGGCTTCAACACAGCTGTACGCTGTGACGCTGTGGAGC 480				
DB 421 GCGCTGCGCCGTCTCTGTGCTGCGGCTTCAACACAGCTGTGTACGCTGTGTGGAGC 480				
QY 481 CCGCGGCGGACGACGCGCTGTGCGCTTCCGCTTCACTGGCGGCTTCAACGCTTCAACG 540				
DB 481 CCGCGGCGGACGACGCGCTGTGCGCTTCCGCTTCACTGGCGGCTTCAACGCTTCAACG 540				
QY 541 TTCTGCTCTCTCTTGT 600				
DB 541 TTCTGCTCTCTCTTGT 600				

OY	601	TTCCATTGCAAGCGATGCACGGATACACATGACAAGTGGTGTCTGCTGGTGGACCTG	660
Db	601	TTCCATTGCAAGCGATGCACGGATACACATGACAAGTGGTGTCTGCTGGTGGACCTG	660
OY	661	CACCCCACTGTCTGGGGAAAGCTGTCTGTGAGAGACAAAGGCGAGAGGACAGACGACCAACC	720
Db	661	CACCCCACTGTCTGGGGAAAGCTGTCTGTGAGAGACAAAGGCGAGAGGACAGACGACCAACC	720
OY	721	AAGAAAGATCAGCACTTTCATAGGGACCTTCTGTGTGCTTGGCGCCCTATGTGATCACC	780
Db	721	AAGAAAGATCAGCACTTTCATAGGGACCTTCTGTGTGCTTGGCGCCCTATGTGATCACC	780
OY	781	AGGCTAGTGGAGCTCTTCTCCACGGGCGCCATCGGCTCCCACTGGGGGGGGCTGTCCAAG	840
Db	781	AGGCTAGTGGAGCTCTTCTCCACGGGCGCCATCGGCTCCCACTGGGGGGGGCTGTCCAAG	840
OY	841	TGCTTTGGCGTACAGCAAGGCCCGCATCCGACCCCTTTGTGTATCTCTTACTGGACACACAG	900
Db	841	TGCTTTGGCGTACAGCAAGGCCCGCATCCGACCCCTTTGTGTATCTCTTACTGGACACACAG	900
OY	901	TACCGCAAAAGCTGCAGAGGATTTCTGAACAGGCTCTTGACAGACGCTTCATCCACTCC	960
Db	901	TACCGCAAAAGCTGCAGAGGATTTCTGAACAGGCTCTTGACAGACGCTTCATCCACTCC	960
OY	961	TCTGGCCCTCACAGGGGACTTTCACAGCCAGAACATTCTCCGGTGTCTGAGTGA 1014	
Db	961	TCTGGCCCTCACAGGGGACTTTCACAGCCAGAACATTCTCCGGTGTCTGAGTGA 1014	

RESULT 9

ID ADO29057 standard; cDNA; 1011 BP.

AC ADO29057

DT 29-JUL-2004 (first entry)

Mouse novel GPCR GPR26 polynucleotide, SEQ ID NO:156.

KM G protein-coupled receptor; GPCR; drug screening; diagnosis;
KM transgenic mouse; neurological disorder; adrenal gland disorder;
KM colon disorder; intestinal disorder; cardiovascular disorder;
KM muscular disorder; blood disorder; immune disorder; bone disorder;
KM joint disorder; metabolic disorder; nutritive disorder; cancer;
KM kidney disorder; liver disorder; lung disorder; breast disorder;
KM ovary disorder; uterus disorder; prostate disorder; testis disorder;
KM skin disorder; stomach disorder; pancreas disorder; spleen disorder;
KM thymus disorder; thyroid disorder; antiparaneoplastic; antineoplastic;
KM cytostatic; antinflammatory; vasotropic; antiangiinal; antiarhythmic;
KM CNS; central nervous system; respiratory; antidiabetic; antidiabetic
KM virulent; hepatotropic; antibacterial; antianemic; antiseborrheic;
KM dermatological; antitumor; antithyroid; antiallergic; anorectic;
KM immunosuppressive; nephrotropic; gene therapy; GPCR modulator; mouse;
KM murine; gene; ss.

OS Mus musculus

PN WO2004040000-A2

PD 13-MAY-2004

PF 09-SEP-2003; 2003WO-US028226

PR 09-SEP-2002; 2002US-0409303P

XX
XX

2 XX

Madisen L, McIlwain KL, Pavlova MN, Vassiliadis D, Zeng H;

DR WPI; 2004-390329/36.

1

XX Novel mammalian G protein coupled receptors, useful for identifying
PT compounds that modulates diagnosing and treating disease condition
PT associated with GPCR dysfunction e.g. autoimmune diseases, angina
PT pectoris, Parkinson's disease.

PS Claim 13; SEQ ID NO 156; 542pp; English.

CC The invention relates to human and mouse G protein-coupled receptors
CC (GPCRs) and nucleic acids encoding them. The invention also relates to
CC sequences at least 90% identical to the GPCR proteins and nucleic acids
CC of the invention; methods of treating, preventing or diagnosing diseases
CC associated with GPCRs of the invention; methods of screening for
CC compounds useful in the treatment of GPCR-related diseases; a transgenic
CC mouse comprising a GPCR gene of the invention; a mouse comprising a
CC mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
CC from the transgenic mice; kits comprising several mice, each of which has
CC a mutation in a different GPCR gene of the invention; and kits comprising
CC probes which hybridise to GPCR polynucleotides of the invention. The
CC invention further discloses variants of the GPCR polypeptides and vectors
CC comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
CC be used in the diagnosis, treatment or prevention of a wide variety of
CC diseases including neurological disorders (e.g., Alzheimer's disease,
CC depression, diabetic neuropathy, Parkinson's disease or schizophrenia);
CC disorders of the adrenal gland; disorders of the colon or intestine
CC (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel
CC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or
CC myocardial infarction); muscular disorders; blood disorders (e.g.,
CC anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or
CC AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid
CC arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g.,
CC obesity, enzyme deficiency-related diseases or vitamin deficiency-related
CC diseases); and disorders of the kidney, liver, lung, breast, ovary,
CC uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and
CC thyroid (e.g., cancers). The present sequence represents a GPCR-encoding
CC nucleic acid of the invention. Note: The full sequence data for this
CC patent did not form part of the printed specification; those sequences
CC not shown were obtained in electronic format directly from WIPO at
CC http://wipo.int/publ/published_pct_sequences.

SQ Sequence 1011 BP; 165 A; 347 C; 282 G; 217 T; 0 U; 0 Other;

Query Match	85.7%	Score 869.2	DB 12	Length 1011
Best Local Similarity	91.3%	Pred. No. 1e-146		
Matches 922; Conservative	0	Mismatches 88	Indels 0	Gaps 0

2Y 1 ATGAACCTGTTGGACGCGGCTTGGCGGGCTACTGTTGGGCACGATGGCGTCTCGCTG 60

Db 1 ATGAACCTGTTGGACGCGGCTGGCGGCTGCTGGTGGCACTATCGGCTGCGCTG 60

61 CTGTCACACGCGGACATCCGCCGACGGC 120

Db 61 CTGTCACACGGGCTGGTGTCTCTGCTCTGACATCCGCCGCG 120

121 CCGGCGCTTCAACCTGAACCTCAGGTGGGGAACCTGCTGTGCACCGTGTCAACATG 180

Db 121 CCGGCGCTTCACTCTCAACCTCACGCTGGCAACCTGCTGTGTACCGTGGTCAACATG 180

181 CCGCTCAGCTGGCCGGCGTCTGTGGCCAGCCGGCAGCCGGCGGCGACCGCTGTGCCGC 240

Db 181 CCACTAACACTGGCCGGCGTCTGGCAACAACGGCAGCCGGCCGGGACCGCTGTGCCGC 240

241 CTGGCTGCCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCTC 300

Db 241 CTGGCCGCTTCTGACACCTTCTGGCCGCCAATCCATGCTCAGCATGGCCGGCTC 300

301 AGCATCGACCGCTGGGTGCCGTGCTCTCCCGCTGAGCTACCGGCCAAGATGCCCTC 360

Db 301 AGCATCGACCGCTGGTGGCTGTTCCCGTGAGCTACCGTGCCAGATGGCCTC 360

361 CGCGACGGCGCTCATGGTGGCTACACGTGGCTGCACGGCTCACTTCCAGCGCC 420

Db 361 CGAGATGCCGCCCTTCATGTGTGGCTACACGTCGTGCACGCCCTCACCTTCCCGGCACC 420

XX ACH39042;
 XX 13-OCT-2003 (first entry)
 DT
 XX Human foetal brain cDNA #409.
 DE
 XX Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
 KW genome mapping; biodiversity; genetic disorder.
 XX Homo sapiens.
 OS
 XX US2003073623-A1.
 PN
 XX 17-APR-2003.
 PD
 XX 30-JUL-2001; 2001US-00918995.
 XX
 PF 30-JUL-2001; 2001US-00918995.
 XX
 PR 30-JUL-2001; 2001US-00918995.
 XX
 PA (DRMA/) DRMANAC R T.
 PA (LABA/) LABAT I.
 PA (STAC/) STACHE-CRAIN B.
 PA (DICK/) DICKSON M C.
 PA (JONE/) JONES L W.
 PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
 DR WPI; 2003-615964/58.
 XX
 XX New polynucleotide sequences obtained from various cDNA libraries, useful
 PT as hybridization probes, as oligomers for PCR, for chromosome and gene
 PT mapping, in the recombinant production of protein, or in generating
 PT antisense DNA or RNA.
 XX
 XX Claim 1; SEQ ID NO 26254; 44pp; English.
 XX
 CC The invention relates to an isolated polynucleotide comprising any one of
 CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
 CC determined by the technique of SBH (sequencing by hybridisation). Also
 CC included is a purified polypeptide comprising a sequence corresponding to
 CC a reading frame of the novel polynucleotide. The nucleic acid sequences
 CC are useful in diagnostics as expressed sequence tags (EST) for
 CC identifying expressed genes or for physical mapping of the human genome,
 CC in forensics, in assessing biodiversity, or in identifying mutations
 CC responsible for genetic disorders and other traits. The nucleotide
 CC sequences are also useful as hybridisation probes, as oligomers for PCR,
 CC for chromosome and gene mapping, in the recombinant production of
 CC protein, or in generating antisense DNA or RNA. The purified polypeptide
 CC is useful for generating antibodies specific for it. The present sequence
 CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
 CC for this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from USPRO at
 CC Seqdata.uspro.gov/sequence.html?docID=20030073623
 CC
 XX Sequence 585 BP; 118 A; 182 C; 161 G; 118 T; 0 U; 6 Other;
 SQ
 Query March 46.6%; Score 472.2; DB 9; Length 585;
 Best Local Similarity 99.4%; Pred. No. 1.4e-75;
 Matches 474; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 707 GACAGGAGCCACCAAGAAATGACAGACCTTCA TAGGACCTTCTGTGTGCTTGCGCG 766
 DB 229 GACAGGAGCCACCAAGAAATGACAGACCTTCA TAGGACCTTCTGTGTGCTTGCGCG 288
 QY 767 CCTATGATCACCAGGCTAGTGAAGCTCTTCCACGGTGCCCATCGGCTCCACTGGG 826
 DB 289 CTTATGTGATCACCAGGCTAGTGAAGCTCTTCCACGGTGCCCATCGGCTCCACTGGG 348
 QY 827 GGGTGTGTCGACAGTGTGGCGGTACAGCAAGGCGGCATCCGACCCCTTGTGTACTCT 886
 DB 349 GGGTGTGTCGACAGTGTGGCGGTACAGCAAGGCGGCATCCGACCCCTTGTGTACTCTCT 408
 QY 887 TACTGGACACCAAGTACCGGAAAGCTGCAAGAGATTCTGACAGGCTCCGACAGAC 946
 DB 409 TACTGGACACCAAGTACCGGAAAGCTGCAAGAGATTCTGACAGGCTCCGACAGAC 468
 QY 947 GCTCCATCCACTCTCTGCGCTCAGAGGAGCTCTCAGACGCGAATCTTCTCCG 1003
 DB 469 GCTCCATCCACTCTCTGCGCTCAGAGGAGCTCTCAGACGCGAATCTTCTCCGCG 525

RESULT 13
 AAS07950
 ID AAS07950 standard; cDNA; 1092 BP.
 XX
 AC AAS07950;
 XX
 DT 23-OCT-2001 (first entry)
 XX
 DE Human cDNA encoding G-protein coupled receptor, hrup23.
 XX
 KW Human; G-protein coupled receptor; GPCR; hrup23; agonist;
 KW inverse agonist; lung cancer; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..1092
 FT /*tag= a
 FT /product= "hrup23"
 XX
 PN W0200136471-A2.
 PD 25-MAY-2001.
 XX
 PF 16-NOV-2000; 2000WO-US031509.
 XX
 PR 17-NOV-1999; 99US-0166088P.
 PR 17-NOV-1999; 99US-0166099P.
 PR 17-NOV-1999; 99US-0166369P.
 PR 23-DEC-1999; 99US-0171900P.
 PR 23-DEC-1999; 99US-0171901P.
 PR 23-DEC-1999; 99US-0171902P.
 PR 11-FEB-2000; 2000US-0181749P.
 PR 14-MAR-2000; 2000US-0189258P.
 PR 14-MAR-2000; 2000US-0189259P.
 PR 10-APR-2000; 2000US-0195898P.
 PR 10-APR-2000; 2000US-0195899P.
 PR 10-APR-2000; 2000US-0196078P.
 PR 28-APR-2000; 2000US-0200419P.
 PR 12-MAY-2000; 2000US-0203630P.
 PR 12-JUN-2000; 2000US-0210741P.
 PR 12-JUN-2000; 2000US-0210982P.
 PR 21-AUG-2000; 2000US-0226760P.
 PR 26-SEP-2000; 2000US-0235418P.
 PR 26-SEP-2000; 2000US-0235779P.
 PR 20-OCT-2000; 2000US-0242332P.
 PR 20-OCT-2000; 2000US-0242343P.
 PR 24-OCT-2000; 2000US-0243019P.
 XX
 PA (AREN-) ARENA PHARM INC.
 XX
 PI Chen R, Dang HT, Lowitz KP;

XX WPI; 2001-355616/37.
 DR P-PSDB; AAU04377.
 XX Endogenous and non-endogenous versions of human G-protein coupled
 PT receptors for direct identification of candidate compounds as agonists,
 XX inverse agonists or partial agonists for use as therapeutic agents.
 XX Example 1; Page 117; 160pp; English.
 XX The sequence encodes a human G-protein coupled receptor (GPCR), hRUP23.
 CC The endogenous and non-endogenous, constitutively activated versions of
 CC human G-protein coupled receptors (GPCR), are useful for direct
 CC identification of candidate compounds as receptor agonists, inverse
 CC agonists or partial agonists having applicability as therapeutic agents
 CC for treating diseases related to GPCR, e.g. lung cancer. Non-endogenous
 CC version of human GPCRs are also utilized in research settings and in
 CC vitro and in vivo system, incorporating GPCRs can be utilized to
 CC elucidate and understand the roles these receptors play in the human
 CC condition, both normal and diseased

XX Sequence 1092 BP; 151 A; 397 C; 340 G; 204 T; 0 U; 0 Other;

Query Match 41.2%; Score 418.2; DB 5; Length 1092;
 Best Local Similarity 64.5%; Pred. No. 6.8e-66;
 Matches 624; Conservative 0; Mismatches 343; Indels 0; Gaps 0;

QY 1 ATGAATCTGTGGAGCGCGGCGCTGAGCGGCTACTGTGGGACGATGGGCTCTGCTG 60
 DB 1 ATGGGCCCCGGGAGGGCGCTGCTGGCGGCTCTCTGGGAGATGATGACCTGGCGCTG 60
 QY 61 CTGTTCACAGCGCTGTGTCTCTCTCTGCTGTGCAACGCGGAGCATCGCGCGCAGCGG 120
 DB 61 CTATTCACAGCGATGTGTCTCTCTGTGTGCGCTTACAGCGCTGAGCTCGCATCGAGCC 120
 QY 121 CCGGCGCTTCAACCTGAACTTCACTGCGGGAACCTGTGTGCACTGTGTGCACTG 180
 DB 121 TCAGGCGCTCTGTGTGAACTTGTGTGTGCGGCACTGTGTGCGCGCTGTGAGCATG 180
 QY 181 CCGCTCAAGCTGTGGCGGCTGTGTGCGGAGCGGAGCGGCGGAGCGGCTGTGCGCGC 240
 DB 181 CCTTCAAGCTGT 240
 QY 241 CTGGCT 300
 DB 241 GTCAATGCT 300
 QY 301 AGCATCAAGCGCTGT 360
 DB 301 AGCGCAAGCGATGT 360
 QY 361 CGGAGCGGCGCTCATGT 420
 DB 361 CGCTATGCGGCGCTGT 420
 QY 421 GCGCTGCGCTGT 480
 DB 421 GCACTTGT 480
 QY 481 CCGGCGGAGCGATGT 540
 DB 481 CCGGCGGAGCGATGT 540
 QY 541 TTCTGTCT 600
 DB 541 TTCTGTCT 600
 QY 601 TTCTGTCT 660
 DB 601 AGCCACTGCGAGCGATGT 660
 QY 661 CACCCAGT 720
 DB 661 CACCCAGT 720

DB 661 CACCCAGT 720
 QY 721 AAGAAGATCAGACACCTTATAGAGACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
 DB 721 AAGAAGATCAGACCTTATAGAGACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
 QY 781 AGGCTAGT 840
 DB 781 AGGCTAGT 840
 QY 841 TGCTTGT 900
 DB 841 TGCTTGT 900
 QY 901 TACCGCAAAAGCTGT 960
 DB 901 TTCCGCAAAAGCTGT 960
 QY 961 TCTGGCC 967
 DB 961 TCCAGCC 967

RESULT 14
 ADL96477
 ID ADL96477 standard; CDNA; 1092 BP.

XX ADL96477;
 XX 20-MAY-2004 (first entry)
 XX Human G protein-coupled receptor (GPCR) cDNA #16.
 XX Human; G protein-coupled receptor; GPCR; gene; ss.
 XX Homo sapiens.
 XX US2003166148-A1.
 XX 04-SEP-2003.
 XX 16-DEC-2002; 2002US-00321807.
 XX 13-OCT-1998; 98US-00170496.
 XX 16-NOV-2000; 2000US-00714008.
 XX (CHEN/) CHEN R.
 XX (DANG/) DANG H T.
 XX (LOWI/) LOWITZ K P.
 XX Chen R, Dang HT, Lowitz KP;
 XX WPI; 2003-898073/82.
 XX P-PSDB; ADL96478.
 XX New G protein-coupled receptor (GPCR), useful for preparing a composition
 PT for identifying compounds as receptors, inverse agonists or partial
 PT agonists having potential applicability as therapeutic agents.
 XX Example 1; SEQ ID NO 31; 82pp; English.
 XX The invention relates to G protein-coupled receptor (GPCR) polypeptides
 CC and the polynucleotides encoding them. The GPCR polypeptides are useful
 CC for preparing a composition for identifying compounds as receptors,
 CC inverse agonists or partial agonists, having potential applicability as
 CC therapeutic agents. This sequence represents human GPCR cDNA of the
 CC invention.
 XX Sequence 1092 BP; 151 A; 397 C; 340 G; 204 T; 0 U; 0 Other;
 XX Query Match 41.2%; Score 418.2; DB 11; Length 1092;
 XX Best Local Similarity 64.5%; Pred. No. 6.8e-66;
 XX Matches 624; Conservative 0; Mismatches 343; Indels 0; Gaps 0;


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QY 1 ATGAACTGTTGGAGCGCGGCTGCGGCTGCTGTTGAGGACGATGAGGCTCTGCTG 60
DB 1 ATGGGCCCCGGGCGAGGGGCTGCTGGCGGGTCTCTGGGATGATGACTGGCCGTGGCCTG 60
QY 61 CTGTCCAAAGCGGCTGTGTGTGCTGTGCTGTGCTGTGCAAGCGCGGACATCCGCGCAGGCG 120
DB 61 CTATTCACAGCGACGTGTGTGTGCTGTGCTGTGCTGTGCAAGCGCGCTGTGCTGTGAGCC 120
QY 121 CCGGCGGCTTCACTGCAAGCTGCAAGCTGCAAGCTGCAAGCTGCAAGCTGCAAGCTG 180
DB 121 TCAGGCGCTTCTCTGTGTGATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
QY 181 CCGGCTCAAGCTGCGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
DB 181 CCGTTCACGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
QY 241 CTGAGCTGCTTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
DB 241 GTCAATGTGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 301 AGCATGACGCTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 301 AGCGACAGCTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
QY 361 CCGGACGCGGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
DB 361 CCGTATGCGGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
QY 421 GCGCTGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
DB 421 GCATTTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
QY 481 CCGGCGGCGACAGCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540
DB 481 CCGGCGGCGACAGCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540
QY 541 TTCTGCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
DB 541 TTCTGCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
QY 601 TTCTGCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660
DB 601 TTCTGCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660
QY 661 AGCCACTGCGACGCGATGACACCGTCAACATGAAAGGCGCTGCGCTGTGTGTGTGT 660
DB 661 AGCCACTGCGACGCGATGACACCGTCAACATGAAAGGCGCTGCGCTGTGTGTGTGT 660
QY 661 CACCCAGTGTGCGGAGAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
DB 661 CACCCAGTGTGCGGAGAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
QY 721 AAGAAATCAGCACCCTTCAATAGGGAAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGT 780
DB 721 AAGAAATCAGCACCCTTCAATAGGGAAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGT 780
QY 781 AGGCTAAGTGAAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840
DB 781 AGGCTAAGTGAAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840
QY 841 TGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
DB 841 TGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
QY 901 TACCGCAAAAGCTGCAAGGATTTCTGAAACAGGCTCTGTGACAGACGCTTCATTCATCC 960
DB 901 TACCGCAAAAGCTGCAAGGATTTCTGAAACAGGCTCTGTGACAGACGCTTCATTCATCC 960
QY 961 TCTGTGCC 967
DB 961 TCTGTGCC 967
```

RESULT 15
ABZ24430
ID ABZ24430 standard; cDNA; 5665 BP.

```
XX AC ABZ24430;
XX 18-MAR-2003 (first entry)
XX DE Human constitutively active receptor (hCAR) cDNA.
XX KW Constitutively active receptor; human; hCAR; receptor;
XX KM G-protein coupled receptor; cytosolic; neuroleptic; antiParkinsonian;
XX OS chromosome 4; gene therapy; gene; ss.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT 5'UTR 1..1891
XX FT CDS /*tag= a
XX FT 1892..2383
XX FT /*tag= b
XX FT /*product= "human constitutively active receptor"
XX FT /*note= "an isolated nucleic acid comprising the coding
XX FT region is specifically claimed in Claim 8"
XX FT 2384..5665
XX FT 3'UTR /*tag= c
XX PN W02002101005-A2.
XX PD 19-DEC-2002.
XX PF 30-MAY-2002; 2002MO-US016834.
XX PR 07-JUN-2001; 2001US-0297131P.
XX PA (AMHP ) WYETH.
XX PI Blatcher M, Bates BG, Paulsen JE;
XX DR WPI, 2003-148789/14.
XX DR P-PSDB; ABP58167.
XX PT New human constitutively Active Receptor (hCAR) gene, useful for
XX PT preparing a composition for treating disorders associated with aberrant
XX PT hCAR protein activity or hCAR nucleic acid expression, e.g., tumor or
XX PT schizophrenia.
XX PS Claim 7; Page 118-122; 139pp; English.
XX XX
XX CC The present sequence is that of cDNA encoding the novel human
XX CC constitutively active receptor (hCAR) protein. hCAR is a G-protein
XX CC coupled receptor that is expressed predominantly in the brain and
XX CC placenta. The hCAR cDNA was isolated from a human cerebellum library. The
XX CC gene (see ABZ24431) is located in chromosome 4. The invention provides
XX CC hCAR nucleic acids and polypeptides, host cells, and methods of producing
XX CC the polypeptides and for detecting the nucleic acids. Also claimed are: a
XX CC method for identifying a compound that binds to hCAR protein; a method
XX CC for modulating the activity of the protein; a method for treating a
XX CC patient having the need for inhibition of hCAR activity; a transgenic,
XX CC chimeric, or knockout non-human animal comprising the present sequence;
XX CC and a method for inhibiting expression of the hCAR gene. The invention
XX CC also relates to improved methods for both the in vitro production of hCAR
XX CC protein and for the production and delivery of hCAR protein by gene
XX CC therapy. hCAR nucleic acids can also be used in diagnostic assays,
XX CC pharmacogenomics, chromosome mapping and tissue typing. An hCAR
XX CC gene/protein modulator, e.g., an antisense oligonucleotide or small
XX CC peptide, can be used to treat a disease or disorder associated with
XX CC abnormal or aberrant hCAR protein activity or hCAR nucleic acid
XX CC expression, especially a disorder involving the brain such as Parkinson's
XX CC disease or schizophrenia, or cancer
XX S0 Sequence 5665 BP; 1084 A; 1654 C; 1635 G; 1292 T; 0 U; 0 Other;
XX
XX Query Match 41.1%; Score 416.6; DB 10; Length 5665;
XX Best Local Similarity 64.4%; Pred. No. 14e-65;
XX Matches 623; Conservative 0; Mismatches 344; Indels 0; Gaps 0;
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QY 1 ATGAATCTGTTGAGACGCGGCGCTTGTGGGCAACGATGGCGCTCTGCGTG 60
 Db 1892 ATGGCCCCCGGCGAGCGCTGCTGGCGGGGTCTCTGTGATGTACTGGCGTGGCGCTG 1951
 QY 61 CTGTCCAAAGCGGCTGTGCTGTCTGTGCTGTGCAACAGCGGAGACATCCGCCAGGCG 120
 Db 1952 CTATCCAAAGCACTGTGTCTGTCTGTGCGCTTACAGCGCTGTGAGCTCCGCACTGAGCC 2011
 QY 121 CCGGCGCTCTTACCGCTGAACTTCAAGTGGGAACTGTGTGTGCAACGTGTCAACATG 180
 Db 2012 TCAGGCGCTCTCTGTGTATCTGTCTGTGGGCACTGTGTGTGCGGCGCTGTGACATG 2071
 QY 181 CCGCTCAAGCTGGCGCGGCTGTGTGTGCGGAGCGGAGCGGCGGAGCGGCTGTGCGCG 240
 Db 2072 CCGTTCACGCTGTCTGT 2131
 QY 241 CTGGCTGTCTCTCTGTGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
 Db 2132 GTCAATTGGCTTCTGTGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2191
 QY 301 AGCATCGACCGCTGT 360
 Db 2192 AGCGGAAACAGT 2251
 QY 361 CCGGACGCGGCGCTTCAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
 Db 2252 CGCTATGCGGCGCTGT 2311
 QY 421 GCGCTCGCGCTGT 480
 Db 2312 GCACCTTGT 2371
 QY 481 CCGGCGGCGCAAGAGCGCTGT 540
 Db 2372 CCGGCGGCGCAAGAGCGCTGT 2431
 QY 541 TTCTGTGTCTTCTGT 600
 Db 2432 TTCTGT 2491
 QY 601 TTCTGT 660
 Db 2492 AGCTACTGT 2551
 QY 661 CACCCAGT 720
 Db 2552 CACCCAGT 2611
 QY 721 AAGAAATCAGCACTTCAATGAGGACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
 Db 2612 AAGAAATGAGCAATGT 2671
 QY 781 AGGCTATGTGAGCTTCTGT 840
 Db 2672 AGGCTATGTGAGCTTCTGT 2731
 QY 841 TGCTTGT 900
 Db 2732 TGCTTGT 2791
 QY 901 TACGCAAAAGCTGTGCAAGGATTTGTAAAGAGCTCTGTGTGTGTGTGTGTGTGTGTGT 960
 Db 2792 TTTCCGCAAGTCTGT 2851
 QY 961 TCTGTGCG 967
 Db 2852 TCCACCC 2858

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[illegible]

Query Match	99.7%; Score 1011; DB 6; Length 1011;	
Best Local Similarity	100.0%; Pred. No. 1,7e-123;	
Matches 1011; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
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OY	61 CTGACCAACGGCGGTGTGTCTGTGCGCTGTGCACAGCGGGAATCCGCGCCAGCGG	120
Db	61 CTGTCCAAAGCGGTGTGTGTCTGTGCGCTGTGCACAGCGGGAATCCGCGCCAGCGG	120
OY	121 CCGGCGCTCTTCAACCTTGAACTTCAAGTGGGAACTGTCTGTCAACCGTGTCAATG	180
Db	121 CCGGCGCTCTTCAACCTTGAACTTCAAGTGGGAACTGTCTGTGTCAACCGTGTCAATG	180
OY	181 CCGCTCAACGCTGGCGCGGCTGTGTGGCGGACGCGGACCGCGGACCGCTGTGCGC	240
Db	181 CCGCTCAACGCTGGCGCGGCTGTGTGGCGGACGCGGACCGCGGACCGCTGTGCGC	240
OY	241 CTGGCTGCTTCTTCGACACCTTCTCGGTGGCCAACTTCAGTCTCAGATGGCGCGCTC	300
Db	241 CTGGCTGCTTCTTCGACACCTTCTCGGTGGCCAACTTCAGTCTCAGATGGCGCGCTC	300
OY	301 AGCATTCGACGCTGGGTGGCGGTGGTCTTCCGCTGAGCTTACCGGGCCAAATGGCGCTC	360
Db	301 AGCATTCGACGCTGGGTGGCGGTGGTCTTCCGCTGAGCTTACCGGGCCAAATGGCGCTC	360
OY	361 CGGACGCGGCGCTCATGTGTGGCTTCAAGTGGCTGACGCGCTCACTTCCACGCGCC	420
Db	361 CGGACGCGGCGCTCATGTGTGGCTTCAAGTGGCTGACGCGCTCACTTCCACGCGCC	420
OY	421 GCGCTCGCGCTGTCTGTGGCTGGCGCTTCCACAGCGTGAACGCTGTGACGCTGGACG	480
Db	421 GCGCTCGCGCTGTCTGTGGCTGGCGCTTCCACAGCGTGAACGCTGTGACGCTGGACG	480
OY	481 CGGCGGCGACAGACGCGCTGCGCTCTTCACTGGCGCTTCAAGCTCTCAAGC	540
Db	481 CGGCGGCGACAGACGCGCTGCGCTCTTCACTGGCGCTTCAAGCTCTCAAGC	540
OY	541 TTCTGTCTCTCTTGT	600
Db	541 TTCTGTCTCTCTTGT	600
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Db	601 TTCCATTTGCAAGCGCATTTGAAGTATATCAACATGACAGACGCTGTGTGTGTGTGT	660
OY	661 CACCCAGATGTGGGGAAACGCTGTCTGTGGAGAGAGAAAGCGGAGCGACACGACCC	720
Db	661 CACCCAGATGTGGGGAAACGCTGTCTGTGGAGAGAGAAAGCGGAGCGACACGACCC	720
OY	721 AAGAAATCAGACACTTTCATAGGAACTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGT	780
Db	721 AAGAAATCAGACACTTTCATAGGAACTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGT	780
OY	781 AGGCTAGTGAAGCTTCTTCAACGCTGCCATCGGCTTCCACTGGGGGGTCTGTGCCA	840
Db	781 AGGCTAGTGAAGCTTCTTCAACGCTGCCATCGGCTTCCACTGGGGGGTCTGTGCCA	840
OY	841 TGCTTTGGGTTCAGAGAGGCGGATTCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGT	900
Db	841 TGCTTTGGGTTCAGAGAGGCGGATTCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGT	900
OY	901 TACGCAAAAGCTGCAAGAGATTTCTGAACAGGCTCTGCAACAGCGCTTCATTCAC	960
Db	901 TACGCAAAAGCTGCAAGAGATTTCTGAACAGGCTCTGCAACAGCGCTTCATTCAC	960
OY	961 TCTGGCTTCAAGGCACTTTCACAGCCAGAACATTTCTGGCGGTGTGTGTGTGTGTGT	1011

Db 961 TCTGACCTCAGAGGAGCTCTCAGCAGCAGCAATTCGCGGTCTGAG 1011

RESULT 3
LOCUS HSA505757
DEFINITION Homo sapiens mRNA for putative orphan G protein-coupled receptor 26 (GPR26 gene).
ACCESSION AJ505757
VERSION AJ505757.1 GI:22293640
KEYWORDS GPR26 gene; orphan G protein-coupled receptor 26.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS 1 Boulay, J.L., Labuhn, M., Jones, G., Maier, D. and Merlo, A.
TITLE The 10q25.3-26.1 gene encoding the orphan G protein-coupled receptor GPR26 is epigenetically silenced in human gliomas
JOURNAL 2
REFERENCE
AUTHORS Jones, G., Boulay, J.L., Maier, D. and Merlo, A.
TITLE Sequence of the human homologue of the rat orphan G protein-coupled receptor GPR26 mRNA
JOURNAL 3 (bases 1 to 7512)
AUTHORS Boulay, J.L.
TITLE Direct Submission
JOURNAL Submitted (13-ANG-2002) Boulay J.L., Research, University Hospital of Basel, 46 Schanzenstrasse, CH-4031 Basel, SWITZERLAND

FEATURES
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RRDERLRFAVFTGAFLALSLFVLLCTYLKLVANPFCRDIIVTMQTLVILV
DLHPVERCLERQRRORATKISTFTFLVCFAPVYITRLEVELFTVPISHG
VLKCLAYSXAASDPFVYSLRHQYRSCKEILNRLHRSIHSSGLTSDSHSONILP
VSE"

ORIGIN

Query Match 99.7%; Score 1010.8; DB 9; Length 7512;
Best Local Similarity 99.8%; Pred. No. 1,1e-123;
Matches 1012; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 113 CTGTCCACGCGCTGTGCTGCTGCTGCTGCTGCAAGCGGCAATCCGCGGCAAGCG 172
Qy 121 CCGGCGCTTTCACCTGAACTCAGTGGGGAACCTGCTGTGACCGTGTGCAATG 180

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Qy 181 CCGCTCAGCTGAGCGGCGCTGTGAGCGAGCGAGCGGCGGCGGCAACCGCTGTGCGCG 240
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Db 353 AGCATGCAACCGCTGAGGCGGCTGTGCTTCCCGTGAAGTACCGGGCCAAATGCGCTC 412
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Db 413 CGCAGCGGCGGCTCATGAGTGGCTTACAGCGTGGAGCGGCTGCAACCTTCCAGCGCG 472
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Db 473 GCGCTGCGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 532
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Qy 781 AGGCTAGTGAAGCTTCTTCCACAGGTCATGCGGCTCCCACTGGGAGGTGTGTGATC 840
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Db 953 TACCGCAAAAGCTGCAAGAGATTTGAAACAGGCTCTGCAAGAGGCTCATCCACTCC 1012
Qy 961 TCTGACCTCAGAGGCACTCTCAGCAGCAAGATTCGCGGCTGTGAGTGA 1014
Db 1013 TCTGACCTCAGAGGCACTCTCAGCAGCAAGATTCGCGGCTGTGAGTGA 1066

RESULT 4
LOCUS BD130531
DEFINITION Ligand receptors and utilization thereof.
ACCESSION BD130531
VERSION BD130531.1 GI:23225476
KEYWORDS JP 2002501083-A/1.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 2581)
AUTHORS Glucksmann, A.W. and Robison, K.
TITLE Ligand receptors and utilization thereof
JOURNAL Patent: JP 2002501083-A 1 15-JAN-2002;

COMMENT
MILLENNIUM PHARMACEUTICALS INC
OS Unidentified
PN JP 2002501083-A/1
PD 15-JAN-2002
PF 20-JAN-1999 JP 2000528599
PR 26-JAN-1998 US 09/013634
PI ALEXANDRA M GLUCKSMANN, KEITH ROBINSON
PC C07K14/705, C07K16/28, C12N5/10, C12N15/09, C12P21/02, C12Q1/68, PC
G01N33/53,
PC C12N5/00, C12N15/00
CC Strandedness: Single;
CC Topology: Linear;
CC Ligand receptors and utilization thereof
FH Key Location/Qualifiers
FT CDS Location/Qualifiers
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ORIGIN
Query Match 99.5%; Score 1009.2; DB 6; Length 2581;
Best Local Similarity 99.7%; Pred. No. 2.3e-123;
Matches 1011; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATGAACCTCGGGAGCGGGGCTGCGGGGCTACTGCTGGGCAAGATGGGCTTCGCTG 60
DB 184 ATGAACCTCGGGAGCGGGGCTTGGCGGGCTTACTGGTGGCAAGATGGGCTTCGCTG 243
QY 61 CTGTCCAAACGGCTGTGTGCTGCTGTGCTGTGCAACGCGGCAATCCGCGCAGGCG 120
DB 244 CTGTCCAAACGGCTGTGTGCTGCTGTGCTGTGCAACGCGGCAATCCGCGCAGGCG 303
QY 121 CCGGCGCTTCAACCTTGAACCTTCACTGTGCGGGAACTGCTGTGCAACCTGTGTAACATG 180
DB 304 CCGGCGCTTCAACCTTGAACCTTCACTGTGCGGGAACTGCTGTGCAACCTGTGTAACATG 363
QY 181 CCGGCTACGGCTGGCGGGGCTGTGTGGCGAGCGGAGCGGCGGCGGCAACCGCTGTGCGC 240
DB 364 CCGGCTACGGCTGGCGGGGCTGTGTGGCGAGCGGAGCGGCGGCGGCAACCGCTGTGCGC 423
QY 241 CTGGCTGCTTCTTCTGACACCTTCTGTGCTGCACTTCACTGTGCAAGATGGCGGCTC 300
DB 424 CTGGCTGCTTCTTCTGACACCTTCTGTGCTGCACTTCACTGTGCAAGATGGCGGCTC 483
QY 301 AGCATCCACCGCTGTGTGGCTGTGTCTTCCCGCTGAGCTACCGGCGCAAGATGGCGCTC 360
DB 484 AGCATCCACCGCTGTGTGGCTGTGTCTTCCCGCTGAGCTACCGGCGCAAGATGGCGCTC 543
QY 361 CGCGACGCGGCGCTCATGTGTGGCTTCACTGAGCTGACGCGCTCACTTCCAGCGCGC 420
DB 544 CGCGACGCGGCGCTCATGTGTGGCTTCACTGAGCTGACGCGCTCACTTCCAGCGCGC 603
QY 421 GCGCTCGCCCTGTCTGTGCTGTGCTTCCACCAAGCTGTACGCTGTGTGACGCTGTGACG 480
DB 604 GCGCTCGCCCTGTCTGTGCTGTGCTTCCACCAAGCTGTACGCTGTGTGACGCTGTGACG 663
QY 481 CGGCGGCGGAGCGAGCGGCTGTGCGGCTTCACTGAGCGCTTCAAGCTGTGACG 540
DB 664 CGGCGGCGGAGCGAGCGGCTGTGCGGCTTCACTGAGCGCTTCAAGCTGTGACG 723
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QY 601 TTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
DB 784 TTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 843
QY 661 CACCCCAAGTGTGGGAAAGCTGTGTGTGAGAGCAAGAGCGGAGCGGAGCGGAGCGGAGCGG 720
DB 844 CACCCCAAGTGTGGGAAAGCTGTGTGTGAGAGCAAGAGCGGAGCGGAGCGGAGCGGAGCGG 903

QY 721 AAGAAGATGACGACCTTCTATAGGAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
DB 904 AAGAAGATGACGACCTTCTATAGGAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 963
QY 781 AGGCTAGTGAAGCTTCTTCTCCACGCTGCGGCAATCGGCTCCCACTGGGGGGGTGTCCAG 840
DB 964 AGGCTAGTGAAGCTTCTTCTCCACGCTGCGGCAATCGGCTCCCACTGGGGGGGTGTCCAG 1023
QY 841 TGCTTGGCTGACAGAGCGGCGCATCCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
DB 1024 TGCTTGGCTGACAGAGCGGCGCATCCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1083
QY 901 TACCGCAAAAGCTGTCAAGAGATTTGAAACAGGCTCTGTGACAGAGGCTTCACTCC 960
DB 1084 TACCGCAAAAGCTGTCAAGAGATTTGAAACAGGCTCTGTGACAGAGGCTTCACTCC 1143
QY 961 TCTGGCTCTCAGAGCGGCTGTGACAGCGAAGATTTCTGCGGCTGTGAGTGA 1014
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RESULT 5
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LOCUS BD130532 1011 bp DNA linear PAT 18-SEP-2002
DEFINITION Ligand receptors and utilization thereof.
ACCESSION BD130532
VERSION BD130532.1 GI:23225477
KEYWORDS JP 2002501083-A/2.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 1011)
AUTHORS Glucksmann, A.M. and Robinson, K.
TITLE Ligand receptors and utilization thereof
JOURNAL Patent: JP 2002501083-A/2 15-JAN-2002;
MILLENNIUM PHARMACEUTICALS INC
COMMENT OS Unidentified
PN JP 2002501083-A/2
PD 15-JAN-2002
PF 20-JAN-1999 JP 2000528599
PR 26-JAN-1998 US 09/013634
PI ALEXANDRA M GLUCKSMANN, KEITH ROBINSON
PC C07K14/705, C07K16/28, C12N5/10, C12N15/09, C12P21/02, C12Q1/68, PC
G01N33/53,
PC C12N5/00, C12N15/00
CC Strandedness: Single;
CC Topology: Linear;
CC Ligand receptors and utilization thereof
FH Key Location/Qualifiers
FT CDS Location/Qualifiers
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ORIGIN
Query Match 99.2%; Score 1006.2; DB 6; Length 1011;
Best Local Similarity 99.7%; Pred. No. 7.4e-123;
Matches 1008; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATGAACCTCGGGAGCGGGGCTGCGGGGCTACTGCTGGGCAAGATGGGCTTCGCTG 60
DB 1 ATGAACCTCGGGAGCGGGGCTTGGCGGGCTTACTGGTGGCAAGATGGGCTTCGCTG 60
QY 61 CTGTCCAAACGGCTGTGTGCTGCTGTGCTGTGCAACGCGGCAATCCGCGCAGGCG 120
DB 1024 CTGTCCAAACGGCTGTGTGCTGCTGTGCTGTGCAACGCGGCAATCCGCGCAGGCG 120
QY 121 CCGGCGCTTCAACCTTGAACCTTCACTGTGCGGGAACTGCTGTGCAACCTGTGTAACATG 180
DB 121 CCGGCGCTTCAACCTTGAACCTTCACTGTGCGGGAACTGCTGTGCAACCTGTGTAACATG 180

Oy		181	CCGCTCAGCGCTGGCCGGCGCTGTGGTGGCGACGCCGACGCCGGGAGCAACCGCCCTGTGTCCGC	240
Db		181	CCGCTCAGCGCTGGCGCTGTGGTGGCGACGCCGACGCCGGGAGCAACCGCCCTGTGTCCGC	240
Oy		241	CTGGCTGCCTTCCTCGACACTTTCCTCGGTGCGCAACTCCATGTCTAGCATTTGGCCGGCTC	300
Db		241	CTGGCTGCCTTCCTCGACACTTTCCTCGGTGCGCAACTCCATGTCTAGCATTTGGCCGGCTC	300
Oy		301	AGCATCGACCGCTGGGTGGCCGTGTCTTCCCCTGAGCTAACCGGGCCAAGATTGCGCTTC	360
Db		301	AGCATCGACCGCTGGGTGGCCGTGTGTCTTCCCCTGAGCTAACCGGGCCAAGATTGCGCTTC	360
Oy		361	CGCGACGGGGGGCTCATATGGTGCGCTACAAGTGGCTGACAGCGCTCACCTTTCCAGCGCGC	420
Db		361	CGCGACGGGGGGCTCATATGGTGCGCTACAAGTGGCTGACAGCGCTCACCTTTCCAGCGCGC	420
Oy		421	GCGCTCGCCCTGTCTGTGGCTCGGCTTCCACAGACTGTACGCTCTGTGACAGCGCTGTGACG	480
Db		421	GCGCTCGCCCTGTCTGTGGCTCGGCTTCCACAGACTGTACGCTCTGTGACAGCGCTGTGACG	480
Oy		481	CGGCGGGCCAGACGAGCGCTTGCGCTTCGCCCGTCTTCACTGGCGGCTTCCACGCTCTACG	540
Db		481	CGGCGGGCCAGACGAGCGCTTGCGCTTCGCCCGTCTTCACTGGCGGCTTCCACGCTCTACG	540
Oy		541	TTCCTGCTCTCTCTTGGTGCGTCTGCTGCGACGTAACGTAAGTGTCAAAGTGGCGCGCC	600
Db		541	TTCCTGCTCTCTCTTGGTGCGTCTGCTGCGACGTAACGTAAGTGTCAAAGTGGCGCGCC	600
Oy		601	TTCCATTGCAAGCGCATCGACGCTGTATCAACATGACAGCGCTGATGCTGTGTGACACTG	660
Db		601	TTCCATTGCAAGCGCATCGACGCTGTATCAACATGACAGCGCTGATGCTGTGTGACACTG	660
Oy		661	CACCCCAATGTGCGGGGAACGCTGTCTGAGAAGACAGAAACCGAAGCGGACGACGAGCACC	720
Db		661	CACCCCAATGTGCGGGGAACGCTGTCTGAGAAGACAGAAACCGAAGCGGACGACGAGCACC	720
Oy		721	AAGAAGATCAGCAACCTTCATAGGAACCTTCTTGTGTGCTTGCGGCCCTCATATGTATCAAC	780
Db		721	AAGAAGATCAGCAACCTTCATAGGAACCTTCTTGTGTGCTTGCGGCCCTCATATGTATCAAC	780
Oy		781	AGGCTAGTGAAGCTCTTCTTCACAGGTGCCATCGGCTCCCACTGGGGGGGTGTGTTCGAAG	840
Db		781	AGGCTAGTGAAGCTCTTCTTCACAGGTGCCATCGGCTCCCACTGGGGGGGTGTGTTCGAAG	840
Oy		841	TGCTTTGGGTATACAGAAAGGCGGCATATCCGACCCCTTTGTGTATCTCTTACTGTGGAACAG	900
Db		841	TGCTTTGGGTATACAGAAAGGCGGCATATCCGACCCCTTTGTGTATCTCTTACTGTGGAACAG	900
Oy		901	TACCGCAAAAGCTGCAGAGATTTCTGAACAGGCTCTGACACAGACGCTCCATCCATCC	960
Db		901	TACCGCAAAAGCTGCAGAGATTTCTGAACAGGCTCTGACACAGACGCTCCATCCATCC	960
Oy		961	TCTGGCTCTACAGCGGCACTCTTCACAGCCAGAACTTTGCGCGGTGTGAG	1011
Db		961	TCTGGCTCTACAGCGGCACTCTTCACAGCCAGAACTTTGCGCGGTGTGAG	1011

RESULT 6
LOCUS COJ29494 969 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 15428 from Patent WO02068579.
VERSION COJ29494
KEYWORDS GI:42300819

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.
Kites, such as nucleic acid arrays, comprising a majority of
humaneons or transcripts, for detecting expression and other uses

JOURNAL Patent: WO 02068579-A, 15428 06-SEP-2002;
 PE Corporation (NY) (US)
 FEATURES Location/Qualifiers
 source 1..969
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ORIGIN
 Query Match 95.4%; Score 967.4; DB 6; Length 969;
 Best Local Similarity 99.9%; Pred. No. 9,2e-118;
 Matches 968; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	46	ATGAGCGTCTCGCTGCTGTCTGTCACACGCGCTGCTGCTCTGCTCTGCTGTCACACGCGGAC	105
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QY	106	ATCCGCGCGCCACGCGCGCGCGCTCTTCAACCTTGAACCTCAGTCCGGGAACCTGCTGTGC	165
DB	61	ATCCGCGCGCCACGCGCGCGCGCTCTTCAACCTTGAACCTCAGTCCGGGAACCTGCTGTGC	120
QY	166	ACCGGTGTCAACATGCGCGCTCAGCGCTGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	225
DB	121	ACCGGTGTCAACATGCGCGCTCAGCGCTGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	180
QY	226	GACCGCTCTGTCCCGCTGCTGCTGCTCTCTCTGACACCTTCTCTGCTGTCACCTCATGCTC	285
DB	181	GACCGCTCTGTCCCGCTGCTGCTGCTCTCTCTGACACCTTCTCTGCTGTCACCTCATGCTC	240
QY	286	AGCATGCGCGCGCTCAGCATGACCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	345
DB	241	AGCATGCGCGCGCTCAGCATGACCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	300
QY	346	GCAAGATGCGCGCTCCGCGACGCGCGCGCTAATGATGCGCTACAGTGTGTCACACGCGCTC	405
DB	301	GCAAGATGCGCGCTCCGCGACGCGCGCGCTAATGATGCGCTACAGTGTGTCACACGCGCTC	360
QY	406	ACCTTCCAGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	465
DB	361	ACCTTCCAGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	420
QY	466	TGCAAGCTGTGACAGCG	525
DB	421	TGCAAGCTGTGACAGCG	480
QY	526	TTCCACGCTCTCAGCTTCTGCT	585
DB	481	TTCCACGCTCTCAGCTTCTGCT	540
QY	586	CTCAAGGTGCGCGCGCTTCAATTGCAAGGCGCATCGACGTGATCACATGACAGCGCTGTG	645
DB	541	CTCAAGGTGCGCGCGCTTCAATTGCAAGGCGCATCGACGTGATCACATGACAGCGCTGTG	600
QY	646	CTGCTGTGTGACCTGTACCCCGAGTGTGCGGAAAGCTGTCTGTGAAGACAGAAACGGAAG	705
DB	601	CTGCTGTGTGACCTGTACCCCGAGTGTGCGGAAAGCTGTCTGTGAAGACAGAAACGGAAG	660
QY	706	CGACAGCGAGCGACCAAGAAAGATAGACACCTTCAATAGGACCTTCTTGTGTGCTTGTGCG	765
DB	661	CGACAGCGAGCGACCAAGAAAGATAGACACCTTCAATAGGACCTTCTTGTGTGCTTGTGCG	720
QY	766	CCCTATGTGATCACACAGGCTAGTGGAGCTCTTCTTCCACGAGGCGCATCCGCTCCCATCG	825
DB	721	CCCTATGTGATCACACAGGCTAGTGGAGCTCTTCTTCCACGAGGCGCATCCGCTCCCATCG	780
QY	826	GGGCTGTGTGATCACAGTGTGTGCGTACAGACAGGCGCGCATCCGACCCCTTGTGTGCTCC	885
DB	781	GGGCTGTGTGATCACAGTGTGTGCGTACAGACAGGCGCGCATCCGACCCCTTGTGTGCTCC	840
QY	886	TTACTGTGACACCAATGACCGCAAAAGCTGTGCAAGAGATTTCTGAACAGGCTCTGTGACAGA	945
DB	841	TTACTGTGACACCAATGACCGCAAAAGCTGTGCAAGAGATTTCTGAACAGGCTCTGTGACAGA	900

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QY 946 CGCTCCATCCACTCTCTGGGCTTCAAGGCGACTTCAAGCAATTTCTGGCGGTG 1005
DB 901 CGCTTCATCCACTCTCTGGGCTTCAAGGCGACTTCAAGCAATTTCTGGCGGTG 960
QY 1006 TCTGAGTGA 1014
DB 961 TCTGAGTGA 969

RESULT 7
CQ831053 1172 bp DNA linear PAT 29-JUL-2004
LOCUS CQ831053
DEFINITION Sequence 3 from Patent EP1437595.
ACCESSION CQ831053
VERSION CQ831053.1 GI:50831179
KEYWORDS
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
REFERENCE
AUTHORS Goodnow, J.R., Mark, D.F., Martin, M.L. and Rosinski, J.A.
TITLE Orphan GPCR gene 115 for obesity indication
JOURNAL Patent: EP 1437595-A 3 14-JUL-2004;
F. HOFPMANN-IA ROCHE AG (CH)
FEATURES
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Query Match 85.6%; Score 868.4; DB 6; Length 1172;
Best Local Similarity 91.0%; Pred. No. 8.4e-105;
Matches 923; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 1 ATGAACCTGCTGGAGACGGGGCTTGGGCTACTGCTGGGCAAGATGGGCTCTCGCTG 60
DB 27 ATGAACCTGCTGGAGACGGGGCTTGGGCTACTGCTGGGCAAGATGGGCTCTCGCTG 86
QY 61 CTGTCCAAAGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 120
DB 87 CTGTCCAAAGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 146
QY 121 CCGGCGCTTTCACCTTGAACCTTACAGTGGGGAACCTGCTGTGCAACCGTGTAAATG 180
DB 147 CCGGCGCTTTCACCTTGAACCTTACAGTGGGGAACCTGCTGTGCAACCGTGTAAATG 206
QY 181 CCGGCTCAAGCTGGCGGCGTGTGGGCGCAAGGCGGCGGCGGCGGCGGCGGCGGCGG 240
DB 207 CCACTTAACATCGGCGGCGTGTGGGCGCAAGGCGGCGGCGGCGGCGGCGGCGGCGG 266
QY 241 CTGGCTGCTTCTTCTGACACCTTCTGAGCTGCAACTTCATGCTCAGCATGGCCGCTC 300
DB 267 CTGGCGGCTTCTTCTGACACCTTCTGAGCTGCAACTTCATGCTCAGCATGGCCGCTC 326
QY 301 AGCATCAACCGCTGGGCGGCGTGTGGGCGTGTGGGCGTGTGGGCGTGTGGGCGTGTG 360
DB 327 AGCATCAACCGCTGGGCGGCGTGTGGGCGTGTGGGCGTGTGGGCGTGTGGGCGTGTG 386
QY 361 CGGACACGGGCGCTCATGTGGCTTACAGTGGCGGCTTCACTTCCAGCGCGC 420
DB 387 CGAGATGCGGCTTCAATGTGGCTTACAGTGGCGGCTTCACTTCCAGCGCGC 446
QY 421 GCGCTGCGCTTCTTCTGAGCTTCTGAGCTTCAACAGCTGTGAGCGCTGTGAGC 480
DB 447 GCGCTGCGCTTCTTCTGAGCTTCTGAGCTTCAACAGCTGTGAGCGCTGTGAGC 506
QY 481 CCGGCGGCAACGAGCGGCTTGGCGCTTTCATGAGCGGCTTTCAGCTCTCAGC 540
DB 507 CCGGCGGCGGCAACGAGCGGCTTGGCGCTTTCATGAGCGGCTTTCAGCTCTCAGC 566

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QY 541 TTCCTGCTCTCTTCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 600
DB 567 TTCCTGCTCTCTTCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 626
QY 601 TTCATTGCAAGCGCATTCAGCGTATACCAATGACGAGCGGCTGTGCTGTGAGCACTG 660
DB 627 TTCATTGCAAGCGCATTCAGCGTATACCAATGACGAGCGGCTGTGCTGTGAGCACTG 686
QY 661 CACCCAGTGTGGGGAACGCTGTCTGTGAGAGCAGAACGAGGCGAGCAGGAGCGAC 720
DB 687 CATCCAGTGTGAGGAACGATGTCTGTGAGGAACAGAACGAGGCGAGGAGCGGCAAC 746
QY 721 AAGAGATCAGCACTTTCATGAGGACCTTCTGTGTGCTGTGCTGTGCTGTGCTGTG 780
DB 747 AAGAGATCAGCACTTTCATGAGGACCTTCTGTGTGCTGTGCTGTGCTGTGCTGTG 806
QY 781 AGGCTGTGAGGCTCTTTCACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 840
DB 807 AGGCTGTGAGGCTCTTTCACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 866
QY 841 TGCTTGGCTTACAGCAAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 900
DB 867 TGCTTGGCTTACAGCAAGCGGCTGTGCTGTGAGCCCTTGTGTGCTGTGCTGTGAG 926
QY 901 TACCGAAGAGCTGCAAGAGATTTGAAACAGGCTCTGCAAGAGCGCTTCATCCACTCC 960
DB 927 TACCGAAGAGCTGCAAGAGATTTGAAACAGGCTCTGAAACAGGCTTCATCCACTCT 986
QY 961 TCTGGGCTTACAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1014
DB 987 GTGGGCTTACAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1040

RESULT 8
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LOCUS AF208288
DEFINITION Rattus norvegicus orphan G protein-coupled receptor GPR26 (GPR26)
ACCESSION AF208288
VERSION AF208288.1 GI:6644327
KEYWORDS
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
REFERENCE
AUTHORS Lee, D.K., Lynch, K.R., Nguyen, T., Im, D.S., Cheng, R., Saldivia, V.R.,
            Liu, Y., Liu, I.S., Heng, H.H., Seeman, P., George, S.R., O'Dowd, B.F.
            and Marchese, A.
TITLE Cloning and characterization of additional members of the G
            protein-coupled receptor family
JOURNAL Biochim. Biophys. Acta 1490 (3), 311-323 (2000)
MEDLINE 20149852
PUBMED 10684976
REFERENCE
AUTHORS Lee, D.K., Lynch, K.R., Nguyen, T., Im, D.S., Cheng, R., Saldivia, V.R.,
            Liu, Y., Liu, I.S., Heng, H.H., Seeman, P., George, S.R.,
            O'Dowd, B.F. and Marchese, A.
TITLE Direct Submission
JOURNAL Submitted (25-NOV-1999) Pharmacology, Univ. Virginia, 1300
            Jefferson Park Avenue, Charlottesville, VA 22908, USA
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Query Match      85.6%; Score 868.4; DB 10; Length 1172;
Best Local Similarity 91.0%; Pred. No. 8.4e-105;
Matches 923; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 1 ATGAACCTCGTGGAGCGGGGCTGGGGGCTACTGTGGGACAGATGGGCTTCGCTG 60
DB 27 ATGAACCTCGTGGAGCGGGGCTGGGGGCTACTGTGGGACAGATGGGCTTCGCTG 86
QY 61 CTGTCCAAAGCGGTGGTGGTCTGTGCTGTGACAGCGGACATCCCGCGCAGGCG 120
DB 87 CTGTCCAAAGCGGTGGTGGTCTGTGCTGTGACAGCGGACATCCCGCGCAGGCG 146
QY 121 CCGGCGCTTTCACCTGAACCTGACGTCGTCGTCGTCGTCGTCGTCGTCGTCG 180
DB 147 CCGGCGCTTTCACCTGAACCTGACGTCGTCGTCGTCGTCGTCGTCGTCGTCG 206
QY 181 CCGGCGCTTTCACCTGAACCTGACGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
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QY 241 CTGGGCTCTTCCCTGACACCTTCTGGCTGCGCAACTCAATGCTCAACATGCGCGCTC 300
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QY 301 AGCATGACCGCTGGGTGGCGTGGTCTTCCCGCTGACCTACCGGCGCAAGATCGGCTC 360
DB 327 AGCATGACCGCTGGGTGGCGTGGTCTTCCCGCTGACCTACCGGCGCAAGATCGGCTC 386
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DB 387 CCGGACCGGCGCTCATGTGGCTTACAGTGGTGGACGCGCTCACCTTCCAGCGCGC 446
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DB 447 GCGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 506
QY 481 CCGGCGGACAGACGCGCTGCTGCGCTTTCACCTGCGCGCTTCCAGCTTCGACG 540
DB 507 CCGGCGGACAGACGCGCTGCTGCGCTTTCACCTGCGCGCTTTCAGCTTCGACG 566
QY 541 TTCTGCTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
DB 567 TTCTGCTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 626
QY 601 TTCCATTTGCAAGGAGCATTCGACGATCAACATGACAGCGTGGTGGTGGTGGAC 660
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QY 721 AAGAAATCAGACCTTTCATAGGAGCTTCTTGTGTGCTTCCGCGCTATGTATCACC 780
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DB 927 TACCGCAAAAGCTGACAGAGATTTCTGAACAGGCTCTGACAGACGCTCCATCACTCC 986
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RESULT 9
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LOCUS
DEFINITION Homo sapiens chromosome 10 clone RP11-391M7, complete sequence.
ACCESSION AC009987
VERSION AC009987.17 GI:20219065
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 196808)
AUTHORS Smith,D.R.
TITLE Genome Therapeutics Corporation Sequencing Center: Human Genome
Sequence Data
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 196808)
AUTHORS Smith,D.R.
TITLE Direct Submission
JOURNAL Submitted (09-SEP-1999) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 3 (bases 1 to 196808)
AUTHORS Smith,D.R.
TITLE Direct Submission
JOURNAL Submitted (20-FEB-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 4 (bases 1 to 196808)
AUTHORS Smith,D.R.
TITLE Direct Submission
JOURNAL Submitted (26-FEB-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 5 (bases 1 to 196808)
AUTHORS Smith,D.R.
TITLE Direct Submission
JOURNAL Submitted (20-APR-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
COMMENT On Apr 20, 2002 this sequence version replaced gi:18921267.
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ORIGIN
Query Match      65.9%; Score 668.6; DB 9; Length 196808;
Best Local Similarity 98.7%; Pred. No. 3.4e-79;
Matches 674; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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QY 1 ATGAACCTCGTGGAGCGCGGCTGGGGGCTACTGTGGGACAGATGGGCTTCGCTG 60
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QY 61 CTGTCCAAAGCGGTGGTGGTCTGTGCTGTGACAGCGGACATCCCGCGCAGGCG 120
DB 160327 CTGTCCAAAGCGGTGGTGGTCTGTGCTGTGACAGCGGACATCCCGCGCAGGCG 160268

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[illegible]

TITLE
JOURNAL
REFERENCE
AUTHORS
 Roman, J., Rossetti, M., Roy, A., Santos, R., Schauer, S., Schnupack, R.,
 Seaman, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N.,
 Strauss, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J.,
 Topham, K., Travers, M., Travis, N., Triggillo, J., Vassiliev, H.,
 Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.-J., Young, G.,
 Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (23-DEC-2001) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 3 (bases 1 to 162502)
 Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N.,
 Anderson, M., Anderson, S., Archchiti, H.M., Barr, N., Bastien, V.,
 Bloom, T., Boguslavsky, L., Boukhalter, B., Camarata, J., Chang, J.,
 Choepel, Y., Collamore, A., Cook, A., Cooke, P., Corum, B.,
 Dabell, A., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L.,
 Erickson, J., Faro, S., Ferreira, P., Fitzgerald, M., Gage, D.,
 Galagan, J., Gargana, S., Graham, L., Grand-Pierre, N., Hafez, N.,
 Hagopian, D., Hago, B., Hall, J., Horton, L., Hulme, W., Iliev, I.,
 Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T.,
 Levine, R., Lindblad-Toh, K., Liu, G., Liu, X., Lui, A., Mabbitt, R.,
 Maclellan, C., Macdonald, P., Major, J., Manning, J., Matthews, C.,
 McCarthy, M., Meldrim, J., Menus, L., Mihova, T., Mungwa, V.,
 Murphy, T., Naylor, J., Nguyen, C., Nguyen, T., Nicol, R., Norbu, C.,
 O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K.,
 Phunhkanh, P., Pierre, N., Rachupka, A., Ramsamy, U., Raymond, C.,
 Reta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schnupack, R.,
 Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N.,
 Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J.,
 Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R.,
 Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L.,
 Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (22-APR-2004) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 4 (bases 1 to 162502)
 Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N.,
 Anderson, M., Anderson, S., Archchiti, H.M., Barr, N., Bastien, V.,
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 Dekrellan, K., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L.,
 Erickson, J., Faro, S., Ferreira, P., Fitzgerald, M., Gage, D.,
 Galagan, J., Gargana, S., Graham, L., Grand-Pierre, N., Hafez, N.,
 Hagopian, D., Hago, B., Hall, J., Horton, L., Hulme, W., Iliev, I.,
 Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T.,
 Levine, R., Lindblad-Toh, K., Liu, G., Liu, X., Lui, A., Mabbitt, R.,
 Maclellan, C., Macdonald, P., Major, J., Manning, J., Matthews, C.,
 McCarthy, M., Meldrim, J., Menus, L., Mihova, T., Mungwa, V.,
 Murphy, T., Naylor, J., Nguyen, C., Nguyen, T., Nicol, R., Norbu, C.,
 O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K.,
 Phunhkanh, P., Pierre, N., Rachupka, A., Ramsamy, U., Raymond, C.,
 Reta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schnupack, R.,
 Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N.,
 Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J.,
 Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R.,
 Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L.,
 Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (26-JUN-2004) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Jun 26, 2004 this sequence version replaced gi:46485957.
 All repeats were identified using RepeatMasker:
 Smt, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html
 ----- Genome Center
 Center: Whitehead Institute/MIT Center for Genome Research
 Center code: WIDR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@broad.mit.edu
 ----- Project Information
 Center project name: L17510
 Center clone name: 528_E_17
 ----- Location/Qualifiers

Qy 661 CACCCGAG 668
 Db 25724 CACCCGAG 25717

RESULT 11
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 DEFINITION Papio hamadryas clone RP41-76M19, LOW-PASS SEQUENCE SAMPLING.
 AC099826
 VERSION AC099826.2 GI:22004220
 KEYWORDS HTG; HTS_PHASE0.
 SOURCE Papio hamadryas (hamadryas baboon)
 ORGANISM Papio hamadryas
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 Cercopithecinae; Papio.
 1 (bases 1 to 68539)
 Birren,B., Nussbaum,C. and Lander,E.
 Papio hamadryas, clone RP41-76M19
 Unpublished

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 REFERENCE
 AUTHORS

2 (bases 1 to 68539)
 Birren,B., Linton,J., Nussbaum,C., Lander,E., Ali,A., Allen,N.,
 Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhalter,B.,
 Brown,A., Camarata,J., Campiano,A., Chang,J., Chazaro,B.,
 Choepel,Y., Collangelo,M., Collins,S., Collymore,A., Cook,A.,
 Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
 Ferreira,P., Fitzhugh,W., Gage,D., Galagan,J., Gardyna,S.,
 Ginde,S., Gord,S., Goyette,W., Graham,W., Grand-Pierre,N.,
 Hagos,B., Heatford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R.,
 Jones,C., Kamat,A., Karatas,A., Kellis,C., Labrecque,K.,
 Lamazares,R., Landers,T., Lehoczeky,J., Levine,R., Liu,G.,
 Maclean,C., MacDonald,P., Major,J., Marquis,N., Matthews,C.,
 McCarthy,M., Mcowan,P., McKenna,K., McPheeters,R., Meldrim,J.,
 Menus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,T., Nguyen,C.,
 Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D.,
 Oliver,J., Peterson,K., Phunhahang,P., Pierre,N., Pollara,V.,
 Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P.,
 Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupack,R.,
 Seaman,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N.,
 Strassman,N., Subramanian,A., Talamas,J., Teefaye,S., Theodore,J.,
 Topham,K., Travers,M., Travis,N., Triggillo,J., Vassiliev,H.,
 Vei,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
 Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.

Direct Submission
 Submitted (22-NOV-2001) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 3 (bases 1 to 68539)
 Birren,B., Nussbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S.,
 Barna,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhalter,B.,
 Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,
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 Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A.,
 Karatas,A., Kellis,C., Landers,T., Levine,R., Lindblad-Toh,K.,
 Liu,G., Maclean,C., MacDonald,P., Major,J., Matthews,C.,
 McCarthy,M., Meldrim,J., Menus,L., Mihova,T., Mlenga,V.,
 Murphy,T., Naylor,T., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H.,
 O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K.,
 Phunhahang,P., Pierre,N., Raymond,C., Retta,R., Rise,C., Rogov,P.,
 Roman,J., Roy,A., Schauer,S., Schupack,R., Seaman,S., Severy,P.,
 Smith,C., Spencer,B., Strange-Thomann,N., Stojanovic,N., Talamas,J.,
 Teefaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H.,
 Vei,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J.,
 Zembek,L., Zimmer,A. and Zody,M.

Direct Submission
 Submitted (30-JUL-2002) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Jul 30, 2002 this sequence version replaced gi:117047165.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WMR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L12534
 Genet clone name: 76_M_19

 * NOTE: This record contains 85 individual
 * sequencing reads that have not been assembled into
 * contigs. Runs of N are used to separate the reads
 * and the order in which they appear is completely
 * arbitrary. Low-pass sequence sampling is useful for
 * identifying clones that may be gene-rich and allows
 * overlap relationships among clones to be deduced.
 * However, it should not be assumed that this clone
 * will be sequenced to completion. In the event that
 * the record is updated, the accession number will
 * be preserved.

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685	784: gap of 100 bp
785	1500: contig of 716 bp in length
1501	1600: gap of 100 bp
1601	2324: contig of 724 bp in length
2325	2424: gap of 100 bp
2425	3092: contig of 668 bp in length
3093	3192: gap of 100 bp
3193	3882: contig of 690 bp in length
3883	3982: gap of 100 bp
3983	4682: contig of 700 bp in length
4683	4782: gap of 100 bp
4783	5480: contig of 698 bp in length
5481	5580: gap of 100 bp
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6296	6395: gap of 100 bp
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7098	7197: gap of 100 bp
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QY 112 CGCAGAGCGCGGCTCTTACCGTGAACCTCACTGCGGGAACCTGCTGTGACCGTG 171
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 Db 961 TGA 963

RESULT 2
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 LOCUS AK036100
 DEFINITION Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length
 enriched library, clone:9630036a11 product:ORPHAN G PROTEIN-COUPLED
 RECEPTOR GPR26 homolog [Rattus norvegicus], full insert sequence.
 ACCESSION AK036100

VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 AK036100.1 GI:26331149
 HTC; CAP trapper.
 Mus musculus (house mouse)
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 MEDLINE
 PUBMED
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
 Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 20499374
 11042159
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 MEDLINE
 PUBMED
 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
 Konno, H., Akiyama, J., Nishi, K., Kikunai, T., Tashiro, H., Itoh, M.,
 Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
 Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
 Fujiwake, S., Inoue, K., Ozawa, Y., Izawa, M., Ohara, E., Wataniki, M.,
 Yoneda, Y., Ishikawa, T., Ogawa, K., Tanaka, T., Matsura, S., Kawai, J.,
 Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format
 sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 20530913
 11076861
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 MEDLINE
 PUBMED
 The RIKEN Genome Exploration Research Group Phase II Team and the
 PANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)
 5
 The PANTOM Consortium and the RIKEN Genome Exploration Research
 Group Phase I & II Team.
 Analysis of the mouse transcriptome based on functional annotation
 of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)
 6 (bases 1 to 2802)
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 MEDLINE
 PUBMED
 Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
 Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
 Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
 Horii, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, T., Kasukawa, T.,
 Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
 Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
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 Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
 Muramatsu, M., and Hayashizaki, Y.
 Direct Submersion
 Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
 Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan (E-mail: genome-res@gscc.riken.jp,
 URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222,
 Fax: 81-45-503-9216)
 COMMENT
 cDNA library was prepared and sequenced in Mouse Genome
 Encyclopedia Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in RIKEN.
 Division of Experimental Animal Research in Riken contributed to
 prepare mouse tissues.
 Please visit our web site for further details.
 URL: http://genome.gsc.riken.jp/
 URL: http://fantom.gsc.riken.jp/.

FEATURES
source

CDS

Location/Qualifiers
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DRVAVVEPLSRAMRLRDAFMVAATLHLPATLALSMIGFHOVLASCLIS
RRPERLRFAVETSAFHALSPILSFIVLCEFTYLVKLVARPHCRIDVITMOTLVILV
DIHSVERCLERORRRORATKTSITFTICFVLCFAPAYVITRVLVEFSTRPISHNG
VLKCLAYSRAADPFVYSILRHQRRSCKELNRIFRRLSHSVGLTGDHSQNLIP
VSE"

ORIGIN

Query Match 86.0%; Score 871.6; DB 3; Length 2802;
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Matches 925; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

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592 CCGGCGGCTCTTCAACCTGGAACCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 651
181 CCGGCTCAAGCTGT 240
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361 CGGACCGCGGCTCATGT 420
832 CGAATGCGCGCTCATGT 891
421 GCGCTGCGCTGT 480
892 GCGCTGCGCTGT 951
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Db 1072 TTCCTGCTCTCTTCTGT 1131
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1312 TGCTTGCGCTGT 1371
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RESULT 3

AY420107

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

PUBMED

Query Match 81.4%; Score 825.4; DB 9; Length 963;
Best Local Similarity 91.1%; Pred. No. 4.7e-163;
Matches 877; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

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Db      61 CGCAGGCGCGCGGCTCTTCAACCTGACCTCACTGCGGGAACCTGCTGTGACCGGTG 120
Qy      172 GTCAACATGCGCTCACTGCTGTGCGGCGGTGTGCGGCAAGCGCGGCGGCGGCGG 231
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Qy      412 CGAGCGCGCGGCTGTGCGGCGGTGTGCGGCGGCTGTGCACTGTGCGGCGGCTGTGCACTG 471
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Qy      472 CTGTGCGGCGGCGGCGGCGGCGGCGGCGGCTGTGCGGCGGCTGTGCACTGTGCGGCGGCTG 531
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Qy      532 GCTGTGAGCTTCTGTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 591
Db      481 GCGGTGAGCTTCTGTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540
Qy      592 GTGCGCGGCTTCACTGTGCAAGCGCATGTGATCACTGTGCAAGCGCTGTGTGTGTGTGTGT 651
Db      541 GTGCGCGGCTTCACTGTGCAAGCGCATGTGATCACTGTGCAAGCGCTGTGTGTGTGTGTGT 600
Qy      652 GTGGAAGTCAAGCGGCTGTGCGGGAACGCTGTGTGGAAGGAGGAGGAGGAGGAGGAGGAG 711
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Qy      712 CGAGCGCACAGAGATGACGACTTGTATAGGAGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 771
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Qy      772 GTGATCAACAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 831
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Qy      832 CTGTGTCAAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 891
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Qy      952 ATTCAGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1011
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Qy      1012 TGA 1014
Db      961 TGA 963

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RESULT 4
LOCUS   AY420106 666 bp DNA linear GSS 12-DEC-2003
DEFINITION Pan troglodytes HCM7113 gene, VIRTUAL TRANSCRIPT, partial sequence,
genomic survey sequence.

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ACCESSION AY420106
VERSION   AY420106.1 GI:39776063
KEYWORDS  GSS.
SOURCE    Pan troglodytes (chimpanzee)
ORGANISM  Pan troglodytes
REFERENCE 1 (bases 1 to 666)
AUTHORS   Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
          Todd,M.A., Tanenbaum,D.M., Clevello,D.R., Lu,F., Murphy,B.,
          Ferriere,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
          Adams,M.D. and Cargill,M.
          Inferring nonneutral evolution from human-chimp-mouse orthologous
          gene trios
          Science 302 (5652), 1960-1963 (2003)
TITLE      JOURNAL
PUBMED    14671302
REFERENCE 2 (bases 1 to 666)
AUTHORS   Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
          Todd,M.A., Tanenbaum,D.M., Clevello,D.R., Lu,F., Murphy,B.,
          Ferriere,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
          Adams,M.D. and Cargill,M.
          Direct Submission
          Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
          Rockville, MD 20850, USA
          This sequence as made by sequencing genomic exons and ordering them
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Best Local Similarity 83.9%; Pred. No. 1e-106;
Matches 559; Conservative 0; Mismatches 107; Indels 0; Gaps 0;
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Qy      219 GCGGCGGACCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 278
Db      121 GCGGCGGNNNNNGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
Qy      279 CATGCTCAGATGCGCGCGCTGTGACATGACGCGTGGGTGGCGGTGTGTGTGTGTGTGTGTGTGT 338
Db      181 CATGCTCAGATGCGCGCGCTGTGACATGACGCGTGGGTGGCGGTGTGTGTGTGTGTGTGTGTGT 240
Qy      339 CTACCGGCGCAAGATGCGCTTCCGCGACGCGCGCTCATGTGTGCTTACAGTGTGTGTGTGTGT 398
Db      241 NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 300
Qy      399 CGGCTCACTTCCAGCGCGCGCGCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 458
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Qy      459 CGCGTGTGACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 518
Db      361 CGCGTGTGACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
Qy      519 TGCGGCTTTCAGCGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 578
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Db	481	CAAGTGTCAAGTGGCCCGTTTCATTGCAAGGCATTCACGTAATCACCATGCAAGC	540
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Db	541	GCTCGTCTGCTGGTGGAGACTTGACCCCAAGTGTGCGGAAAGCTGTCTTGAGAGACAGAA	600
QY	699	GCGAGGCGAAGCGAGGCCACCAAGAATCAGCACTTTCAATAGGGAACCTTCTGTGTGTG	758
Db	601	GCGAGGCGAAGCGAGGCCACCAAGAATCANNCACTTCAATAGGGAACCTTCTGTGTGTG	660
QY	759	CTTCGC 764	
Db	661	CTTCGC 666	

RESULT 5	
CO934052	
LOCUS	
DEFINITION	CO934052 741 bp mRNA linear EST 16-AUG-2000
	AGENCOURT 30488535 NIH MGC 145 Homo sapiens CDNA clone
	IMAGE:7267026 5', mRNA sequence.

ACCESSION	CO934052
VERSION	CO934052.1
KEYWORDS	GI:51288729
SOURCE	EST.
ORGANISM	<i>Homo sapiens</i> (human)

REFERENCE	1 (pages 1 to 741)
AUTHORS	NIH-MGC http://mgc.ncl.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Daniela S. Gerhard, Ph.D.

Tissue Procurement: GPCR Consortium
CDNA Library Preparation: GPCR Consortium
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
<http://image.lnll.gov>
Plate: IRB16 row: c column: 08
High quality sequence stop: 607.
Location/Qualifiers
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/clone_lib="NIH_MGC_145"
/notes="vector: pcdNA3.1; Site 1: varies by clone; Site 2: varies by clone; ORFs were PCR-amplified and cloned into pcdNA3.1 by the GPCR Consortium. Cloning sites vary by clone and include the following: 5'-EcoRV-XmnI/XhoI-3', 5'-EcoRV-XmnI/NotI-3', EcoRV (TA cloned, non-directional). For information about which gene each clone represents, please visit our anonymous ftp site at ftp://image.lnl.gov/image/rearrayed_plates/IRRI.presv.dat/a Note: this is a NIH_MGC Library."

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Best Local Similarity 95.9%; Pred. No. 7.7e-103;
Matches 585; Conservative 0; Mismatches 22; Indels 3; Gaps 3;

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QY	121	CCGGCGGCTCTTACCCCTGAACTTCACGTGCGGGAACTGTGTGACCGTGTCTCAACATG	180
Db	136	CCGGGCGCTTTCACCCCTGAACTTCACGTGCGGGAACTGTGTGACCGTGTCTCAACATG	195
QY	181	CCGCTCACGCTGGCCGGCGGTGTGTGTGCGAGCGGACGGCGGGCGACCGCCTGTGTCCGC	240
Db	196	CCGCTCACGCTGGCCGGCGGTGTGTGTGCGAGCGGACGGCGGGCGACCGCCTGTGTCCGC	255
QY	241	CTGTGTGTGCTTCTTCGAAACCTTCTGTGTGTGCAATCTCAATGTGAGATGTGCCCCGCTC	300
Db	256	CTGTGTGTGCTTCTTCGAAACCTTCTGTGTGTGCAATCTCAATGTGAGATGTGCCCCGCTC	315
QY	301	AGCATTCGACGCGTGGGTGTGTGCGGTCTTCCCGCTGAGCTACCGGGCAAGATGGCGCTC	360
Db	316	AGCATTCGACGCGCTGGGTGTGTGCGGTCTTCCCGCTGAGCTACCGGGCAAGATGGCGCTC	375
QY	361	CGGCAACGGGCGCTCATGTGTGAGCTTACAGTGTGCTGACGCGCTCACTTCCAGCGCTC	420
Db	376	CGGCAACGGGCGCTCATGTGTGAGCTTACAGTGTGCTGACGCGCTCACTTCCAGCGCTC	435
QY	421	GGGCTCGCCCTGTCTGTGTGTGTGCTTCCACAGAGCTATAGGCTCGTGTGACGCTGTGAGCG	480
Db	436	GGGCTCGCCCTGTCTGTGTGTGTGCTTCCACAGAGCTATAGGCTCGTGTGACGCTGTGAGCG	495
QY	481	CGGCGGCGACAGAGCGCGCTGCGCTGTCTTCACTGTGCGCGCTTTCACACGCTCTCAGC	540
Db	496	CGGCGGCGCGACAGAGCGCGCTGTGCGCTGTCTTCACTGTGCGCGCTTTCACACGCTCTCAGC	554
QY	541	TTCTCTGCTCTTCTTGT	600
Db	555	-TCTGTGCTCTCTT-TGT	612
QY	601	TTTCATTGCA 610	
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RESULT 6	
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LOCUS	
DEFINITION	736 bp mRNA linear EST 16-AUG-2000
ACCESSION	AGC934490
VERSION	AGC934490.1
KEYWORDS	IMAGE:7211818 5', mRNA sequence.
SOURCE	CO934490.1 GI:51289167
ORGANISM	EST.
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	Homo sapiens
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1. (bases 1 to 736)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: GPCR Consortium
cDNA Library Preparation: GPCR Consortium
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: IRBIS row: c column: 08
High quality sequence stop: 600.
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a Note: this is a NIH_MGC Library."

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ORIGIN	
Query Match	51.5%; Score 521.8; DB 7; Length 736;
Best Local Similarity	97.9%; Pred. No. 2.9e-99;
Matches 560; Conservative	0; Mismatches 8; Indels 4; Gaps 3;

[illegible]

RESULT	7
LOCUS	C0934461/c
DEFINITION	C0934461 730 bp mRNA linear EST 16-AUG-2004
ACCESSION	AGNCOURT_3069835 NIH MGC_145 Homo sapiens cDNA clone
VERSION	IMAGE:7211818 3', mRNA sequence.
KEYWORDS	C0934461 C0934461.1 GI:51289138
SOURCE	EST.
ORGANISM	Homo sapiens (human)
	Homo sapiens
	Homo sapiens

REFERENCE
AUTHORS Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi
Mammalia; Mammalia; Primates; Carnivora; Carnivora; Homnidae; Homo.
1 (bases 1 to 730)
NIH-MGC <http://imgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgaibs-r@mail.nih.gov
Tissue Procurement: GPCR Consortium
cDNA Library Preparation: GPCR Consortium
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
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High quality sequence stop: 539.

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a Note: this is a NIH_MGC Library."

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[illegible]

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Dd	212 CCTTTGTGTACTCCTTACTGTGCGAACACAGTACC GGAAAAGCTGCAAGAGATTCTTAAC	153
Oy	931 AGGCTTCCTGCACAGACGCTCCATCCATCTCTTGGGCTTCACAGGCGACTTCACAGCCAG	990
Dd	152 AAGCTTCCTGCACAGACGCTCCATCCATCTCTTGGGCTTCACAGGCGACTTCACAGCCAG	93
Oy	991 AACATTCTGCGGGTGTCTGAGTGA	1014
Dd	92 AACATTCTGCGGGTGTCTGAGTGA	69
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LOCUS	AKO42755	
DEFINITION	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730021D22 product:ORPAIN G PROTEIN-COUPLER RECEPTOR GPR26 homolog [Rattus norvegicus], full insert sequence.	
ACCESSION	AKO42755	
VERSION	AKO42755.1 GI:26335306	
KEYWORDS	HTC; CAP trapper.	
SOURCE	Mus musculus (house mouse)	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	
REFERENCE		
AUTHORS	Carninci, P. and Hayashizaki, Y.	1
TITLE	High-efficiency full-length cDNA cloning	
JOURNAL	Meth. Enzymol. 303, 19-44 (1999)	
MEDLINE	99279253	
PUBMED	10349636	2
REFERENCE		
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.	
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	
JOURNAL	Genome Res. 10 (10), 1617-1630 (2000)	
MEDLINE	20499374	
PUBMED	11042159	3
REFERENCE		
AUTHORS	Shibata, K., Itoh, M., Alzawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Komno, H., Akiyama, J., Nishi, K., Kitsuma, T., Tashiro, H., Itoh, M., Suni, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kasaiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.	
TITLE	RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer	
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)	
MEDLINE	20530913	
PUBMED	11076861	4
REFERENCE		
AUTHORS	The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.	
TITLE	Functional annotation of a full-length mouse cDNA collection	
JOURNAL	Nature 409, 685-690 (2001)	
MEDLINE		
PUBMED		5
REFERENCE		
AUTHORS	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.	
TITLE	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs	
JOURNAL	Nature 420, 563-573 (2002)	
MEDLINE	(bases 1 to 1211)	
PUBMED	6	
REFERENCE		
AUTHORS	Adachi, J., Alzawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiroka, T., Hirokane, T., Hoti, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,	

	TITLE	Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Koude M., Koya S., Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M., Nishi K., Nomura K., Nunazaki R., Ohno M., Ohsato N., Okazaki Y., Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H., Sasai D., Shibata K., Shinagawa A., Shiraki T., Soabe Y., Tagami M., Tagawa A., Takahashi F., Takaku-Akihira S., Takeeda Y., Tanaka T., Tomaru A., Toya T., Yasunishi A., Muramatsu M. and Hayashizaki Y.
	JOURNAL	Submitted (16-Jul-2001) Yoshitake Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration and Chemical Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama Kanagawa 230-0045, Japan [E-mail: genome-res@gscc.riken.jp, Fax:81-45-503-9216]
	COMMENT	CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details. URL:http://genome.gsc.riken.jp/ URL:http://fantom.gsc.riken.jp/ Location/Qualifiers
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ORIGIN		Query Match 48.5%; Score 491.8; DB 3; Length 1211; Best Local Similarity 90.2%; Pred. No. 6e-93; Matches 526; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
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3

QY 732 CACCTTCATAGGAGACCTTCTGTGTGTCTTGTGCGCCCTATGTATGATCAACAGGCTAGTGA 791
 |||||
 DB 302 CACCTTCATAGGAGACCTTCTGTGTGTCTTGTGCACTTATGTATTCACAGGCTGTGGA 361
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 QY 792 GCTCTTCATAGGAGACCTTCTGTGTGTCTTGTGCGCCCTATGTATGATCAACAGGCTAGTGA 851
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 DB 362 ACTCTTCATAGGAGACCTTCTGTGTGTCTTGTGCGCCCTATGTATGATCAACAGGCTAGTGA 421
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 QY 852 CACGAGAGCGGAGATCCGACCCCTTGTGTATCTCTTATCTGCGACACACAGTACCGCAAAAG 911
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 DB 422 CACGAGAGCGGAGATCCGACCCCTTGTGTATCTCTTGTGTGAGACACCAATACCGAGAG 481
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 QY 912 CTGCAAGAGATTTCTGAACAGGCTCTGCAACAGAGCTTCAATCATCTCTCTGCTTAC 971
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 DB 482 CTGCAAGAGATTTCTGAACAGGATCTTCAACAGAGAGCTCTCTCTTCACTCTGTGGGCTTAC 541
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 QY 972 AGGAGACTCTCAAGCGCAAAACATTTGCGGAGTCTGAGTGA 1014
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 DB 542 AGGAGACTCTCAAGCGCAAAACATTTGCGAGTCTGGAATGA 584
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RESULT 9
 C8528011 861 bp mRNA linear EST 09-JUL-2003
 LOCUS C8528011
 DEFINITION U1-M-PY0-clf-1-22-0-U1.r1 NIH_BMAP_PY0 Mus musculus cDNA clone
 IMAGE:6850823 5', mRNA sequence.
 ACCESSION C8528011
 VERSION C8528011.1 GI:29361484
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 861)
 NIH-WGC http://wgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-remail.nih.gov
 Tissue Procurement: Dr. Jim Lin, University of Iowa
 CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at
 http://genome.uiowa.edu/distribution/mouse1.html
 This clone was contributed by the Brain Molecular Anatomy Project
 (BMAP)
 Seq primer: PYX-5.

FEATURES
 source
 Location/Qualifiers
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 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6"
 /db_xref="taxon:10090"
 /clone="IMAGE:6850823"
 /tissue_type="whole brain"
 /dev_stage="embryo 13.5,14.5,16.5,17.5,dpcc"
 /lab_host="DH10B (T1 phase resistant)"
 /clone_lib="NIH BMAP PY0"
 /note="Organ: Brain_Vector: PYX-Asc; Site:1: Ecor I;
 Site:2: Not I; The library was constructed according
 Bonaïdo, Lennon and Soares, Genome Research, 6:791-806,
 1996. Denatured RNA was size fractionated on a 1% agarose
 gel. First strand cDNA synthesis was primed with oligo-dt
 primer containing a Not I site. Double strand cDNA was
 size selected according to mRNA size fraction, ligated
 with Ecor I adaptor, digested with NotI and then cloned
 directionally into PYX-Asc vector. The library tag
 sequence located between the Not I site and the polyA tail
 is AGCAGAGCAG. This library was created for the University
 Iowa Brain Anatomy Project (BMAP). 'Gene Discovery in the
 Developing Mouse Nervous System', supported by National
 Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,

ORIGIN
 program coordinator."

Query Match 47.7%; Score 483.4; DB 6; Length 861;
 Best Local Similarity 90.5%; Pred. No. 3.4e-91;
 Matches 514; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

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 DB 293 ATGAACCTCGTGGAGCGCGGAGCTTGGCGGGGCTTACTGTGTGGGACGATGGGCGCTTGTGCTG 352
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 QY 61 CTGTCCAGCGGAGT 120
 |||||
 DB 353 CTGTCCAGCGGAGT 412
 |||||
 QY 121 CCGGCGCTCTTCAACCTTGAACCTTCAAGTGTGGGAACTTGTGTGACCGTGTGTCAATG 180
 |||||
 DB 413 CCGGCGCTCTTCAACCTTGAACCTTCAAGTGTGGGAACTTGTGTGACCGTGTGTCAATG 472
 |||||
 QY 181 CCGCTCAACGCTGGCGCGGCTGT 240
 |||||
 DB 473 CCACTTAACACTGGCGCGGCTGT 532
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 QY 241 CTGGGCGCTTCTCTGACACCTTCTGAGCTTCCATGCTGACATGGCGGCGCTC 300
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 DB 533 CTGGGCGCTTCTCTGACACCTTCTGAGCTTCCATGCTGACATGGCGGCGCTC 592
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 QY 301 AGCATGACCGCTGAGT 360
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 DB 593 ANCATGACCGCTGAGT 652
 |||||
 QY 361 CCGAGCGCGGCGCTCATGT 420
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 DB 653 CGAGATGCGCGCTTCTGAGT 712
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 QY 421 GCGCTGCGCTTCTGAGT 480
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 DB 713 GCGCTGCGCTTCTGAGT 772
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 QY 481 CCGCGGCGAGACGAGCGGCTTGT 540
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 DB 773 CCGCGGCGGAGACGAGCGGCTTGT 832
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 QY 541 TTCTCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 568
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RESULT 10
 BB639955 703 bp mRNA linear EST 31-AUG-2001
 LOCUS BB639955
 DEFINITION BB639955 RIKEN full-length enriched, 7 days neonate cerebellum Mus
 musculus cDNA clone A730021D22 5', mRNA sequence.
 ACCESSION BB639955
 VERSION BB639955.1 GI:15401479
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 703)
 REFERENCES
 1 Akakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T.,
 Hara, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J.,
 Kono, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K.,
 Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K.,
 Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,
 Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F.,
 Takekida, Y., Tanaka, T., Toy, T., Muramatsu, M., and Hayashizaki, Y.
 RIKEN Mouse ESTs (Akakawa, T., et al. 2001)
 Unpublished (2001)
 CONTACT: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center (GSC), Yokohama Institute

	Matches	1014;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;	
QY	1	ATGA	ACTG	TGGG	AGCGGG	CTGCGGGGG	CTCACTG	TGGG	GCACGATG	GGGCTCTTCG	60
Db	1	ATGA	ACTG	TGGG	AGCGGG	CTGCGGGGG	CTCACTG	TGGG	GCACGATG	GGGCTCTTCG	60
QY	61	CTG	TCAA	CGG	CTG	TGCTG	CTGCG	CTGCA	CAGCG	GGGACATCGCG	120
Db	61	CTG	TCAA	CGG	CTG	TGCTG	CTGCG	CTGCA	CAGCG	GGGACATCGCG	120
QY	121	CCGG	CGCT	CTT	CAC	CCCTG	AACCT	CACTG	CGGGAA	CTTCTG	180
Db	121	CCGG	CGCT	CTT	CAC	CCCTG	AACCT	CACTG	CGGGAA	CTTCTG	180
QY	181	CCG	CTCA	CGCT	GGCG	CGTGTG	GGCG	CA	CGCG	CGCG	240
Db	181	CCG	CTCA	CGCT	GGCG	CGTGTG	GGCG	CA	CGCG	CGCG	240
QY	241	CTG	GTG	CTT	CTCT	GAC	CCCTT	CGTGG	CTGCA	CTCATG	300
Db	241	CTG	GTG	CTT	CTCT	GAC	CCCTT	CGTGG	CTGCA	CTCATG	300
QY	301	AGCA	TCGA	CCG	TGG	GTG	CGCG	CTT	CCG	CTGAG	360
Db	301	AGCA	TCGA	CCG	TGG	GTG	CGCG	CTT	CCG	CTGAG	360
QY	361	CGCG	ACG	CGG	CGCT	ATG	TGG	CTTCA	CA	CGTGG	420
Db	361	CGCG	ACG	CGG	CGCT	ATG	TGG	CTTCA	CA	CGTGG	420
QY	421	GCG	CTCG	CCCT	GTG	CTG	CGG	CTTCA	CA	CGTGG	480
Db	421	GCG	CTCG	CCCT	GTG	CTG	CGG	CTTCA	CA	CGTGG	480
QY	481	CGG	CGG	CGAGA	CGA	CGC	CTG	CGC	CTTCA	CGC	540
Db	481	CGG	CGG	CGAGA	CGA	CGC	CTG	CGC	CTTCA	CGC	540
QY	541	TTCT	CTG	CTCT	CTT	CTG	CTG	CTG	CTG	CTG	600
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QY	601	TTCA	CTT	CGA	AGG	CGAT	GCA	CGT	GA	TCAT	660
Db	601	TTCA	CTT	CGA	AGG	CGAT	GCA	CGT	GA	TCAT	660
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Db	661	CAC	CC	CAG	TG	TGCG	GGAA	CG	CTGT	CTG	720
QY	721	AAGA	AGAT	CA	GAG	CACTT	CA	TAG	GGAA	CCCTT	780
Db	721	AAGA	AGAT	CA	GAG	CACTT	CA	TAG	GGAA	CCCTT	780
QY	781	AGG	CTA	GTG	AG	AGCT	CTT	CTTCA	CGG	TCC	840
Db	781	AGG	CTA	GTG	AG	AGCT	CTT	CTTCA	CGG	TCC	840
QY	841	TG	CTT	GG	CGT	CA	GAG	CG	CGCAT	CCCTT	900
Db	841	TG	CTT	GG	CGT	CA	GAG	CG	CGCAT	CCCTT	900
QY	901	TAC	CG	CA	AA	AG	CTG	CA	AGG	AGAT	960
Db	901	TAC	CG	CA	AA	AG	CTG	CA	AGG	AGAT	960
QY	961	TC	TG	GC	CT	CA	CA	GG	CG	CT	1014
Db	961	TC	TG	GC	CT	CA	CA	GG	CG	CT	1014

[illegible]

OY	661	CACCCACGATGTCGGGAAAGCTGTCTGGAAGACAGAAAGCGAGGAGCGACGACACC	720
Db	661	CACCCACGATGTCGGGAAAGCTGTCTGGAAGACAGAAAGCGAGGAGCGACGACACC	720
OY	721	AAGAAATCAGCACTTCATAGGACCTTCCTGTGTGCTTCGCGCCTATATGTATCAC	780
Db	721	AAGAAATCAGCACTTCATAGGACCTTCCTGTGTGCTTCGCGCCTATATGTATCAC	780
OY	781	AGGCTAAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCATCTGGGGAGGTGCTGTCCAG	840
Db	781	AGGCTAAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCATCTGGGGAGGTGCTGTCCAG	840
OY	841	TGCTTGGCGCTAAGCAAGGCGCGCATATCCGACCCCTTTGTGTATCTCTTACTGCGACACACAG	900
Db	841	TGCTTGGCGCTAAGCAAGGCGCGCATATCCGACCCCTTTGTGTATCTCTTACTGCGACACACAG	900
OY	901	TACCGCAAAAGCTGCAGAGGAGATTCTGAAACAGGCTCCTGCACAGAGCTCATCCACTCC	960
Db	901	TACCGCAAAAGCTGCAGAGGAGATTCTGAAACAGGCTCCTGCACAGAGCTCATCCACTCC	960
OY	961	TCTGGCCTCACAGGCGACTCTCACAAGCCAGAAACATTCTGCCGGTGTCTGAG	1011
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RESULT 3
US-10-757-262-129
; Sequence 129, Application US/10757262
; Publication No. US20040197825A1
GENERAL INFORMATION:
APPLICANT: Karichesti, Venkateswarlu
APPLICANT: Silos-Santiago, Immaculada
APPLICANT: Eliahsot, Scott D.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
TITLE OF INVENTION: UROLOGICAL DISORDERS USING 44390, 54181, 211, 5687, 884,
TITLE OF INVENTION: 1405, 638, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 44373, 51164,
TITLE OF INVENTION: 55010, 11852, 1587, 22077, 22245, 2387, 52908, 69112, 14990,
TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 86575
TITLE OF INVENTION: 33720, 4809, 14303, 16816, 17827, 32620, 577, 619, 1423,
TITLE OF INVENTION: 2158, 8283, 15402, 16209, 16386, 21165, 30911, 41897, 1643,
TITLE OF INVENTION: 2543, 9626, 13211, 32409, 84260, 2882, 8203, 32678 OR
TITLE OF INVENTION: 55053
FILE REFERENCE: MP103-007P1RNMONTM
CURRENT APPLICATION NUMBER: US/10/757,262
CURRENT FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 60/440,318
PRIOR FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: US 60/444,783
PRIOR FILING DATE: 2003-02-04
PRIOR APPLICATION NUMBER: US 60/457,901
PRIOR FILING DATE: 2003-03-27
PRIOR APPLICATION NUMBER: US 60/468,775
PRIOR FILING DATE: 2003-05-08
PRIOR APPLICATION NUMBER: US 60/471,614
PRIOR FILING DATE: 2003-05-19
PRIOR APPLICATION NUMBER: US 60/478,742
PRIOR FILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: US 60/488,529
PRIOR FILING DATE: 2003-07-18
PRIOR APPLICATION NUMBER: US 60/491,156
PRIOR FILING DATE: 2003-07-30
PRIOR APPLICATION NUMBER: US 60/499,594
PRIOR FILING DATE: 2003-09-02
PRIOR APPLICATION NUMBER: US 60/506,332
PRIOR FILING DATE: 2003-09-26
NUMBER OF SEQ ID NOS: 136
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 129
LENGTH: 2530
TYPE: DNA
ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: CDS
; LOCATION: (186)...(1199)
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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(12530)
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; OTHER INFORMATION: n = A,T,C or G
US-10-757-262-129

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Query Match	99.5%	Score 1009.2;	DB 19;	Length 2530;
Best Local Similarity	99.7%;	Pred. No. 4.9e-252;		
Matches 1011;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;

[illegible]

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1086	TACGCAAAACCTGCAAGAGATTGTGAAACAGGCTCCGACACAGAGCGTCCATCCATCC	1146	TCTGGCCCTCACAGGAGATCTTCACAGCCGAGAAATCTTCGCGGTCTGAGTGA

RESULT 4

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US-09-742-732-1
: Sequence 1, Application US/09742732
: Patent No. US20020055137A1
:
: GENERAL INFORMATION:
: APPLICANT: M. Alexandra Glucksman and Keith Robison
: TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
: NUMBER OF SEQUENCES: 14
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: LAHIVE & COCKFIELD, LLP
: STREET: 28 State Street
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02109
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/742,732
: FILING DATE: 20-Dec-2000
: CLASSIFICATION: <Unknown>
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 09/175,983
: FILING DATE: <Unknown>
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Attorney, Jean M. Silveri
: REGISTRATION NUMBER: 39,030
: REFERENCE/DOCKET NUMBER: MNI-036
:
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)742-4214
:
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2581 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
:
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 184...1194
:
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-742-732-1

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Query Match	Similarity	99.5%	Score	1009.2	DB	9	Length	2581	
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QY	61	CTGTCCAAGCGCGTGTGTGCTCTTTCGCTGTGCACAGGGGCGGACATTCGCGCGGACAGGG	120						
Db	244	CTGTCCAAGCGCGTGTGTGCTCTTTCGCTGTGCACAGGGGCGGACATTCGCGCGGACAGGG	303						
QY	121	CGGGCGCTTTCACCCCTGAACCTCAGTCCGGGAACTCTGTGCACCGTGTGCACATG	180						
Db	304	CGGGCGCTTTCACCCCTGAACCTCAGTCCGGGAACTCTGTGCACCGTGTGCACATG	363						
QY	181	CGGCTACGCTGACGCGCGCTGTGTGCGACAGCGGACCGGCGGGGAGACCGCTGTTCGCC	240						

[illegible]

RESULT 5

US-10-921-613-1
Sequence 1, Application US/10921613
Publication No. US20050079550A1
GENERAL INFORMATION:
APPLICANT: M. Alexandra Glucksmann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk


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;          LOCATION: 1..1011
;          SEQUENCE DESCRIPTION: SEQ ID NO: 3
US-09-742-732-3

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Query Match Similarity		99.2%	Score 1006.2	DB 9	Length 1011	
Best Local Similarity		99.7%	Pred. No. 2,8e-251			
Matches 1008	Conservative	0	Mismatches	3	Indels	Gaps 0
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Db	1	ATGAACCTGCTGGAGCGCGGAGCTCTGGCGGAGCTACTGTGGGACGACATGGGCGCTCTCGCTG	60			
QY	61	CTGTCCACACGGCTGTGTGTCTGTGCTGCTGCGCTGACACAGCGGAGATCCGCGCCAGGCG	120			
Db	61	CTGTCCACACGGCTGTGTGTCTGTGCTGCTGCGCTGACACAGCGGAGATCCGCGCCAGGCG	120			
QY	121	CCGGCGCTCTTTCACACCTGAACTCTACGTGCGGAAACTGTGTGCAACCGTGTCTCAATG	180			
Db	121	CCGGCGCTCTTTCACACCTGAACTCTACGTGCGGAAACTGTGTGCAACCGTGTCTCAATG	180			
QY	181	CCGCTCACACGTGACCGGCGTGTGTGGCGACAGCGGACGCGGCGGCGACCGCTGTGCGCG	240			
Db	181	CCGCTCACACGTGACCGGCGTGTGTGGCGACAGCGGACGCGGCGGCGACCGCTGTGCGCG	240			
QY	241	CTGGGTGCTTCTCTGACACACTTCTCGGTGTGCAACTCATGTCACTGACATGTGCGCGCTC	300			
Db	241	CTGGGTGCTTCTCTGACACACTTCTCGGTGTGCAACTCATGTCTACGATGTGCGCGCTC	300			
QY	301	AGCATGACCGGTGTGGTGGCGCGTGTGCTTCCGCTGAGCTACCGGAGCAAGATGCGGCTC	360			
Db	301	AGCATGACCGGTGTGGTGGCGCGTGTGCTTCCGCTGAGCTACCGGAGCAAGATGCGGCTC	360			
QY	361	CGGCACGCGGCGCTCATATGTGGCTTACACATGTGGCTGACAGCGCTCACTTCCACGCGCG	420			
Db	361	CGGCACGCGGCGCTCATATGTGGCTTACACATGTGGCTGACAGCGCTCACTTCCACGCGCG	420			
QY	421	GCGCTGCGCTGTCTGTGCTCGGCTTCCACACAGCTGTACGCGCTGTGCAACGCTGTGCAAC	480			
Db	421	GCGCTGCGCTGTCTGTGCTCGGCTTCCACACAGCTGTGTACGCGCTGTGCAACGCTGTGCAAC	480			
QY	481	CGGCGGCGCAAGCAGACGCGCTGTGCTTCCGCTGCTTCACTGTGGGCTTCCACGCTCTCAGC	540			
Db	481	CGGCGGCGCAAGCAGACGCGCTGTGCTTCCGCTGCTTCACTGTGGGCTTCCACGCTCTCAGC	540			
QY	541	TTCCTGCTCTCTTGTGTGTGTGCTGTGCTGCTGACAGTACCTCAAGGTGCTCAAGGTGCGCG	600			
Db	541	TTCCTGCTCTCTTGTGTGTGTGCTGTGCTGCTGACAGTACCTCAAGGTGCTCAAGGTGCGCG	600			
QY	601	TTCATTTGCAAGCGCATCGACGTGATCAACATGACAGCGTGTGTGCTGTGTGACCTTG	660			
Db	601	TTCATTTGCAAGCGCATCGACGTGATCAACATGACAGCGTGTGTGCTGTGTGACCTTG	660			
QY	661	CACCCCACTGTGTGGGGAAGCTGTCTGTGAGAGACAAACCGGAGGAGACAGCGAGCGACCC	720			
Db	661	CACCCCACTGTGTGGGGAAGCTGTCTGTGAGAGACAAACCGGAGGAGACAGCGAGCGACCC	720			
QY	721	AAGAAGATCAGACCTTTCATAGGGAACCTTCTGTGTGTGCTTGCAGCGCTATGTGATCAC	780			
Db	721	AAGAAGATCAGACCTTTCATAGGGAACCTTCTGTGTGTGCTTGTGCGCGCTATGTGATCAC	780			
QY	781	AGGCTAGTGAAGCTTCTTCCACAGGTGCCATCGCTTCCACTGTGGGAGGTGTGTCCAG	840			
Db	781	AGGCTAGTGAAGCTTCTTCCACAGGTGCCATCGCTTCCACTGTGGGAGGTGTGTCCAG	840			
QY	841	TGCTTGTGCTTACAGCAAGCGCGATCCGATCCGCTTGTGTATCTTTCATCTGCGACACAG	900			
Db	841	TGCTTGTGCTTACAGCAAGCGCGATCCGATCCGCTTGTGTATCTTTCATCTGCGACACAG	900			
QY	901	TACCGCAAAAGCTGCAAGAGATTCTGAACAGGCTCTGTGACAGAGCTTCATCTCACTCC	960			
Db	901	TACCGCAAAAGCTGCAAGAGATTCTGAACAGGCTCTGTGACAGAGCTTCATCTCACTCC	960			
QY	961	TCTGAGCTTACAGGCGACTTCTACAGCGACGAACATTTCTCGGCTGTCTAG	1011			

Db 961 TCTGGCCTCACAGGCGACTCTACAGCCAGACATTCTGCCGGTGTCTGAG 1011

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RESULT 7
US-10-921-613-3
Sequence 3, Application US/10921613
Publication No. US20050079550A1
GENERAL INFORMATION:
APPLICANT: M. Alexandra Glucksmann and Keith Robisco
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHYE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
Zip: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/921,613
FILING DATE: 18-Aug-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/013,634
FILING DATE: 26-JAN-1998
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1011 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1011
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-921-613-3

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Query Match	99.2%	Score 1006.2;	DB 21;	Length 1011;
Best Local Similarity	99.7%	Pred. No. 2.8e-251;		
Matches 1008; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;

QY 1 ATGAACCTGTTGGAGCGCGGCTCTGGCGGGGCTACTGATGTGGACAGATGTGGCGCTTCGCTG 60

Db 1 ATGAACCTGTTGGAGCGCGGCTCTGGCGGGGCTACTGATGTGGACAGATGTGGCGCTTCGCTG 60

QY 61 CTGTCCAAACGCGCTGTGTGCTCTGTCCCTGTGTCACAGGCGGGACATCCGCGGCGACAGGG 120

Db 61 CTGTCCAAACGCGCTGTGTGCTCTGTCCCTGTGTCACAGGCGGGACATCCGCGGCGACAGGG 120

QY 121 CCGGCGCTCTTTCACCCCTGAACTCAAGTGCAGGGAACTGTGCTGTGCAACGGTGTCAACATG 180

Db 121 CCGGCGCTCTTTCACCCCTGAACTCAAGTGCAGGGAACTGTGCTGTGCAACGGTGTCAACATG 180

QY 181 CCGCTCAAGCTGGACGGGCGTGTGGGCGAGCGGCAAGCCGCGGAGCCACGCTGTGTCGCG 240

Db 181 CCGCTCAAGCTGGACGGGCGTGTGGGCGAGCGGCAAGCCGCGGAGCCACGCTGTGTCGCG 240

QY 241 CTGGCTGCTTCTCTGACACTTCTGTGGTGGCACTCATGTCAAGCATGTGGCGGCGCTC 300

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Db 241 CTGGCTGCTTCTTCGACACCTTCTGGCTGCAACTCCATGCTCAGATGAGCCGCGCTC 300
Qy 301 AGCATCGACCGCTGGGTGGCGGTGGTCTTCCGCTGAGCTACCGGGCCAGATGGCGCTC 360
Db 301 AGCATCGACCGCTGGGTGGCGGTGGTCTTCCGCTGAGCTACCGGGCCAGATGGCGCTC 360
Qy 361 CGCGACCGGGGCTCATGTGGCTTACACAGTGGCTGACAGCGCTCACTTCCAGCGCC 420
Db 361 CGCGACCGGGGCTCATGTGGCTTACACAGTGGCTGACAGCGCTCACTTCCAGCGCC 420
Qy 421 GCGCTGCGCTTGTCTGGCTGGGCTTCCACAGCTGTACGCTGTGACGCTGTGACG 480
Db 421 GCGCTGCGCTTGTCTGGCTGGGCTTCCACAGCTGTGTACGCTGTGACGCTGTGACG 480
Qy 481 CGGCGCGCGACGACGCGCTGCTTCCGCGCTTCACTGAGCGCTTCAAGCTTCAAG 540
Db 481 CGGCGCGCGACGACGCGCTGCTTCCGCGCTTCACTGAGCGCTTCAAGCTTCAAG 540
Qy 541 TTCTGCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
Db 541 TTCTGCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
Qy 601 TTTCATTGCAAGCGCATGAGTATCAACATGACAGAGCTGTGTGTGTGTGTGTGTGT 660
Db 601 TTTCATTGCAAGCGCATGAGTATCAACATGACAGAGCTGTGTGTGTGTGTGTGTGT 660
Qy 661 CACCCAGTGTGCGGGAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
Db 661 CACCCAGTGTGCGGGAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
Qy 721 AAGAAATCAGACCTTCTATAGGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
Db 721 AAGAAATCAGACCTTCTATAGGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
Qy 781 AGGCTAGTGAAGCTTCTTCCACAGTGGCTTCCAGCTGTGTGTGTGTGTGTGTGTGT 840
Db 781 AGGCTAGTGAAGCTTCTTCCACAGTGGCTTCCAGCTGTGTGTGTGTGTGTGTGTGT 840
Qy 841 TGCTTGGCTGACAGACCGCATCCGACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
Db 841 TGCTTGGCTGACAGACCGCATCCGACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
Qy 901 TACCGCAAAAGCTGCAAGAGATTCTGAAACAGGCTCCGTCGACAGCGCTCCATCC 960
Db 901 TACCGCAAAAGCTGCAAGAGATTCTGAAACAGGCTCCGTCGACAGCGCTCCATCC 960
Qy 961 TCTGGCTCACAAGCGCACTCTCAGACGCAAACTTCTGCGGTGTGTGTGTGTGTGT 1011
Db 961 TCTGGCTCACAAGCGCACTCTCAGACGCAAACTTCTGCGGTGTGTGTGTGTGTGT 1011
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RESULT 8

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US-10-505-486-172
; Sequence 172, Application US/10505486
; Publication No. US20050118639A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Determination of a ligand
; FILE REFERENCE: P03-0006CT
; CURRENT APPLICATION NUMBER: US/10/505,486
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: JP 2002-45728
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: JP 2002-213949
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: JP 2002-298237
; PRIOR FILING DATE: 2002-10-11
; NUMBER OF SEQ ID NOS: 233
; SEQ ID NO 172
; LENGTH: 1728
; TYPE: DNA
; ORGANISM: Human
US-10-505-486-172
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Query Match 99.2%; Score 1006.2; DB 21; Length 1728;
Best Local Similarity 99.7%; Pred. No. 2.9e-251;
Matches 1008; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 ATGAATCTGTGGGACCGGGGCTGGCGGCTACTGTGTGGACATGGGCTTCGCTG 60
Db 1 ATGAATCTGTGGGACCGGGGCTGGCGGCTACTGTGTGGACATGGGCTTCGCTG 60
Qy 61 CTGTCCAAAGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
Db 61 CTGTCCAAAGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120
Qy 121 CCGGCGCTCTTCAACCTTCAACCTTCAACCTTCAACCTTCAACCTTCAACCTTCA 180
Db 121 CCGGCGCTCTTCAACCTTCAACCTTCAACCTTCAACCTTCAACCTTCAACCTTCA 180
Qy 181 CCGCTCAGCTGTGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
Db 181 CCGCTCAGCTGTGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
Qy 241 CTGGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 300
Db 241 CTGGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 300
Qy 301 AGCATCGACCGCTGGGTGGCGGTGGTCTTCCGCTGAGCTACCGGGCCAGATGG 360
Db 301 AGCATCGACCGCTGGGTGGCGGTGGTCTTCCGCTGAGCTACCGGGCCAGATGG 360
Qy 361 CGCGACCGGGGCTCATGTGGCTTACACAGTGGCTGACAGCGCTCACTTCCAGCG 420
Db 361 CGCGACCGGGGCTCATGTGGCTTACACAGTGGCTGACAGCGCTCACTTCCAGCG 420
Qy 421 GCGCTGCGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
Db 421 GCGCTGCGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
Qy 481 CCGGCGCGACAGAGCGCTGCGCTTCCAGCTTCACTGTGGCGCTTCCAGCGCT 540
Db 481 CCGGCGCGACAGAGCGCTGCGCTTCCAGCTTCACTGTGGCGCTTCCAGCGCT 540
Qy 541 TTCTGCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
Db 541 TTCTGCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
Qy 601 TTTCTGCTGCAAGGCTATGACGCTGATCAACATGACAGCGCTGTGTGTGTGTGT 660
Db 601 TTTCTGCTGCAAGGCTATGACGCTGATCAACATGACAGCGCTGTGTGTGTGTGT 660
Qy 661 CACCCAGTGTGCGGGAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
Db 661 CACCCAGTGTGCGGGAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
Qy 721 AAGAAATCAGACCTTCTATAGGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
Db 721 AAGAAATCAGACCTTCTATAGGAACTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
Qy 781 AGGCTAGTGAAGCTTCTTCCACAGTGGCTTCCAGCTGTGTGTGTGTGTGTGTGT 840
Db 781 AGGCTAGTGAAGCTTCTTCCACAGTGGCTTCCAGCTGTGTGTGTGTGTGTGTGT 840
Qy 841 TGCTTGGCTGACAGACCGCATCCGACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
Db 841 TGCTTGGCTGACAGACCGCATCCGACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
Qy 901 TACCGCAAAAGCTGCAAGAGATTCTGAAACAGGCTCCGTCGACAGCGCTCCATCC 960
Db 901 TACCGCAAAAGCTGCAAGAGATTCTGAAACAGGCTCCGTCGACAGCGCTCCATCC 960
Qy 961 TCTGGCTCACAAGCGCACTCTCAGACGCAAACTTCTGCGGTGTGTGTGTGTGTGT 1011
Db 961 TCTGGCTCACAAGCGCACTCTCAGACGCAAACTTCTGCGGTGTGTGTGTGTGTGT 1011
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RESULT 9
US-10-083-168-97
; Sequence 97, Application US/10083168
; Publication No. US2003023069A1
; GENERAL INFORMATION:
; APPLICANT: Liaw, Chen W.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Maciejewski-Lemior, Dominique
; APPLICANT: Leonard, James N.
; APPLICANT: Ortuno, Daniel
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Endogenous And No. US2003023069A1-Endogenous, Constitutively Act
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0320
; CURRENT APPLICATION NUMBER: US/10/083,168
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: Patent version 3.1
; SEQ ID NO 97
; LENGTH: 1014
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-083-168-97

Query Match 97.3%; Score 986.8; DB 14; Length 1014;
Best Local Similarity 98.3%; Pred. No. 3e-246;
Matches 997; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAACCTGTTGGAGACGGGGGCTTGGAGGCTACTGTGGGACAGATGGGCTGTGCTG 60
Db 1 ATGAACCTGTTGGAGACGGGGGCTTGGAGGCTACTGTGGGACAGATGGGCTGTGCTG 60
QY 61 CTGTCCAAACGGCGTGTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 120
Db 61 CTGTCCAAACGGCGTGTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 120
QY 121 CCGGGGCTTACCTGAACTTCAAGTGGGAACTGCTGTGTCAACCTGCTGTGTCAACATG 180
Db 121 CCGGGGCTTACCTGAACTTCAAGTGGGAACTGCTGTGTCAACCTGCTGTGTCAACATG 180
QY 181 CCGGCTACGCTGTGGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
Db 181 CCGGCTACGCTGTGGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
QY 241 CTGGCTGCTTCTTCTGTGAACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
Db 241 CTGGCTGCTTCTTCTGTGAACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 301 AGCATGACCGCTGT 360
Db 301 AGCATGACCGCTGT 360
QY 361 CGGACGCGGCTGT 420
Db 361 CGGACGCGGCTGT 420
QY 421 GCGCTCGCTGT 480
Db 421 GCGCTCGCTGT 480
QY 481 CCGGGGCGGACGAGCGCTGT 540
Db 481 CCGGGGCGGACGAGCGCTGT 540
QY 541 TTCTGTCTCTCTTCTGT 600
Db 541 TTCTGTCTCTCTTCTGT 600
QY 601 TTCCATTGCAAGCGCATGAGT 660
Db 601 TTCCATTGCAAGCGCATGAGT 660

QY 661 CACCCCAAGTGTGGGAGACGCTGTCTGTGAAGACAGAACCGGAGCGCAGACGACCCACC 720
Db 661 CACCCCAAGTGTGGGAGACGCTGTCTGTGAAGACAGAACCGGAGCGCAGACGACCCACC 720
QY 721 AAAAAATGACGACCTTCAATAGGACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
Db 721 AAAAAATGACGACCTTCAATAGGACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
QY 781 AGGCTAGTGAAGCTTCTTCTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840
Db 781 AGGCTAGTGAAGCTTCTTCTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 840
QY 841 TGCTTGGCTGTACAGCAAGCGCGATCCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGT 900
Db 841 TGCTTGGCTGTACAGCAAGCGCGATCCGACCCCTTGTGTGTGTGTGTGTGTGTGTGTGT 900
QY 901 TACCGAAAAGCTGTCAAGAGATTTTGAAAGAGCTCTGTGTGTGTGTGTGTGTGTGTGTGT 960
Db 901 TACCGAAAAGCTGTCAAGAGATTTTGAAAGAGCTCTGTGTGTGTGTGTGTGTGTGTGTGT 960
QY 961 TCTGGCTTCAAGCGGACCTTCTCAAGCGGAACTTCTGTGTGTGTGTGTGTGTGTGTGT 1014
Db 961 TCTGGCTTCAAGCGGACCTTCTCAAGCGGAACTTCTGTGTGTGTGTGTGTGTGTGTGT 1014

RESULT 10
US-10-735-991-3
; Sequence 3, Application US/10735991
; Publication No. US20040121395A1
; GENERAL INFORMATION:
; APPLICANT: GOODNOW, Jr., Robert Alan
; APPLICANT: MARK, David Fu-Chi
; APPLICANT: MARTIN, Mitchell Lee
; APPLICANT: ROSINSKI, James Andrew
; TITLE OF INVENTION: Sequence #115 as a target for identifying weight modulating
; FILE REFERENCE: 21366
; CURRENT APPLICATION NUMBER: US/10/735,991
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/436,375
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patent version 3.2
; SEQ ID NO 3
; LENGTH: 1172
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: GPCR #115
; LOCATION: (1)..(1172)
; OTHER INFORMATION: Q9QXI3
US-10-735-991-3

Query Match 85.6%; Score 868.4; DB 19; Length 1172;
Best Local Similarity 91.0%; Pred. No. 1.ee-215;
Matches 923; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 1 ATGAACCTGTTGGAGACGGGGGCTTGGAGGCTACTGTGGGACAGATGGGCTGTGCTG 60
Db 27 ATGAACCTGTTGGAGACGGGGGCTTGGAGGCTACTGTGGGACAGATGGGCTGTGCTG 86
QY 61 CTGTCCAAACGGCGT 120
Db 61 CTGTCCAAACGGCGT 120
QY 87 CTGTCCAAACGGCGT 146
Db 87 CTGTCCAAACGGCGT 146
QY 121 CCGGGGCTTTCACCTTGAACCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
Db 121 CCGGGGCTTTCACCTTGAACCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180
QY 147 CCGGCGCTTTCACCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 206
Db 147 CCGGCGCTTTCACCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 206
QY 181 CCGGCTACGCTGTGGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
Db 207 CCACTTAACCTGTGGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 266


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? PRIOR FILING DATE: 1999-12-23
? PRIOR APPLICATION NUMBER: 60/181,749
? PRIOR FILING DATE: 2000-02-11
? Remaining Prior Application data removed - See File Wrapper or PAML
? NUMBER OF SEQ ID NOS: 133
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO. 31
? LENGTH: 1092
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-10-321-807-31

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[illegible]

Db	841	TGCTGACCTACAGCAGAGCGGTGCGCCACCGTTTCAGTACTTCTGTCTCCGGCGGCGG	900
Oy	901	TACCGGAAAGTCGCAAGAGATTGTGAACAGGCTCTGCACAGAGCTCATTCACATCC	960
Db	901	TTCCGGCAAGTCTCTGCGCGCATGTGTGACCGCGTGTGAAGAACCCCGCCACAGCA	960
Oy	961	TTCTGACC	967
Db	961	TTCACCC	967

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RESULT 13
US-10-321-807-31
; Sequence 31, Application US/10321807
; Publication NO. US20040137563A9
; GENERAL INFORMATION:
; APPLICANT: Dang, Rupon
; APPLICANT: Dang, Huong T.
; APPLICANT: Lowitz, Kevin P.
; TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Human G Protein-Coupled
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN0086
; CURRENT APPLICATION NUMBER: US/10/321,807
; CURRENT FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: US/09/714,008
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: PCT/US99/23938
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: 60/166,088
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,099
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,369
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/171,902
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/171,901
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/171,900
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/181,749
; PRIOR FILING DATE: 2000-02-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 31
; LENGTH: 1092
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-321-807-31

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Query Match	Similarity	41.2%	Score 418.2	DB 19	Length 1092
Best Local	Similarity	64.5%	Pred. No. 1,18-98		
Matches	624	Conservative	0	Mismatches 343	Indels 0
				Gaps	0
QY	1	ATGAACTGTTGGAGCGCGGCGCTTGCGGGGCTACTGTGTGGACGATGSGCGTCTCGTG	60		
Db	1	ATGGGCCCCCGCGCGAGGCGCTGCTGCGCGGGTCTCTCGTGTGATGTACTGCGCGTGGCGCTG	60		
QY	61	CTGTCCAAAGCGGCGTGTGTCTGTCTGCGCTGTGTGCACAGCGCGGACATCGCGCGCGAGGCG	120		
Db	61	CTATCCAAAGCACTGTGTCTCTTGTGTGGCGCCCTACAGCGCTGAGCTCCGACACTGAGCC	120		
QY	121	CCGGCGCTCTTCAACCTGAACTCGACGTCGGGAACTGTGTGTGCACCTGTGTCAATG	180		
Db	121	TCAGGCGCTCTCTGTGTAAATCTGTGCTGTGGGACACCTGTGTGTGTGGCGCTGTGACATG	180		
QY	181	CCGCTCAAGCGTGGCGGCGTGTGTGTGGCGGACGCGGGGGGAGACGGCTGTGGCGG	240		
Db	181	CCCTTCACGCTGTGGTGTATGCGCGGGAGACCTGTGTGGCGCCCGGCGCATGCCAA	240		

Qy	722	AGAAATATGACACCTTCAATAGGAACTTCTGTGTGCTTCGGGCGCTPANGATCAC	78
Db	721	AGGAATTTGGCATTGCTATTTGCACTTCTCTCATCTGTGCCCCGTATGTCATGACC	780
Qy	781	AGGCTAGTGAAGCTCTTCTCCACGGTGCCTCATCGGCTTCCCATGAGGAGTGTCTCCAG	840
Db	781	AGGCTGGCGAAGTCTGTGCTTCTCTCAACCGTGAACGCCAGTGGGCACTTCCTACGACAG	840
Qy	841	TGCTTGGCGTAAAGCAAGGCGCATCCGACCCTTTGTTGTACTCTTACTAGGCACACAG	900
Db	841	TGCTTAACCTTACAGCAAGCGGTGGCCGACCCTTCAAGTACTCTGTGCTTCGCGGGCG	900
Qy	901	TACCGCAAAAGCTGCAGAGGATTTGTGAACAGGCTCTGCACAGACGCTCATTCACCTC	960
Db	901	TTCCGCCAAGTCTGTGCGCGGATGTGTGACCGCGCTGTGAAGAAACCCGCGCCAGCA	960
Qy	961	TTCTGGCC 967	
Db	961	TCCACCC 967	

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RESULT 15
US-10-897-815-31
; Sequence 31, Application US/10897815
; Publication No. US20050004178A1
; GENERAL INFORMATION:
; APPLICANT: Unettt, David J.
; APPLICANT: Chen, Ruoping
; APPLICANT: Richman, Jeremy
; APPLICANT: Connolly, Daniel
; APPLICANT: Dang, Hung T.
; APPLICANT: Choi, Bryan
; APPLICANT: Leonard, James
; APPLICANT: Liaw, Chen
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lerner, Michael
; TITLE OF INVENTION: Human G Protein-Coupled Receptors Thereof
; TITLE OF INVENTION: For the Treatment of Metabolic-Related Disorders
; FILE REFERENCE: 22.US6.CIP
; CURRENT APPLICATION NUMBER: US/10/897,815
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: US/10/314,048
; PRIOR FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: 10/096,511
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/995,543
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 60/399,917
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/404,761
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/410,747
; PRIOR FILING DATE: 2002-09-13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
; LENGTH: 1092
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-897-815-31

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Query Match	41.2%;	Score 418.2;	DB 21;	Length 1092;
Best Local Similarity	64.5%;	Pred. No. 1.1e-98;		
Matches 624;	Conservative	0;	Mismatches .333;	Indels 0;
				Gaps 0;

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QY      1 ATGAACTCGTGGAGACGCGCGCCCTTGCGCGGACTGTGTGGCAAGATGGCGCTTCGCTG 60
        ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1 ATGGGCCCCGCGAAGGCCCTGCTGGCGGGCTCCTGTGTAATTGTACTGCGCCGTGGCGCTG 60
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[illegible]

Search completed: July 5, 2005, 16:12:07
Job time : 737 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 5, 2005, 12:50:16 ; Search time 210 Seconds
(without alignments)
7900.879 Million cell updates/sec

Title: US-10-735-991-5

Perfect score: 1014
Sequence: 1 atgaactcgtggagcgcg99.....ctctgcggtgtctgagtga 1014

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptcdat1/ina/5B COMB.seq: *
3: /cgn2_6/ptcdat1/ina/6A COMB.seq: *
4: /cgn2_6/ptcdat1/ina/6B COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1009.2	99.5	2581	2	US-09-013-634-1
2	1006.2	99.2	1011	2	US-09-013-634-3
3	79.2	7.8	1047	3	US-08-540-6508-6
4	79.2	7.8	1050	4	US-09-826-509-502
5	79.2	7.8	1053	4	US-09-016-434-1423
6	79.2	7.8	1110	3	US-08-513-974B-31
7	79.2	7.8	1110	3	US-08-776-971-26
8	79.2	7.8	1110	4	US-09-461-436B-31
9	79.2	7.8	1110	4	US-09-576-290-26
10	79.2	7.8	1331	3	US-08-513-974B-322
11	79.2	7.8	1331	3	US-08-776-971-103
12	79.2	7.8	1331	4	US-09-576-290-103
13	79.2	7.8	1882	3	US-08-540-6508-11
14	79.2	7.8	1303	3	US-08-693-308-1
15	73.8	7.3	1335	2	US-08-985-090-3
16	73.8	7.3	1335	3	US-09-165-543-3
17	73.8	7.3	1335	3	US-09-167-354-6
18	73.8	7.3	1335	3	US-09-167-354-5
19	73.8	7.3	1335	3	US-09-642-855-6
20	73.8	7.3	1335	3	US-09-642-855-5
21	73.8	7.3	2050	4	US-09-891-053-21
22	73.8	7.3	2669	2	US-08-985-090-1
23	73.8	7.3	2669	3	US-09-165-543-1
24	73.8	7.3	2669	3	US-09-167-354-5
25	73.8	7.3	2669	3	US-09-642-855-5
26	73.8	7.3	2669	3	US-09-642-855-5
27	73.6	7.3	1161	1	US-08-086-439C-2

28	73.6	7.3	1161	1	US-08-434-877-2	Sequence 2, Appl1
29	73.6	7.3	1367	3	US-08-475-742-3	Sequence 3, Appl1
30	73.6	7.3	1367	3	US-08-261-293-3	Sequence 3, Appl1
31	73.6	7.3	1504	4	US-09-016-434-1276	Sequence 1276, Ap
32	72	7.1	1370	1	US-08-056-051-1	Sequence 1, Appl1
33	72	7.1	1370	1	US-07-928-611-17	Sequence 17, Appl1
34	72	7.1	1370	2	US-08-487-811A-17	Sequence 17, Appl1
35	72	7.1	1370	3	US-09-060-694-17	Sequence 17, Appl1
36	72	7.1	1370	3	US-09-378-074-17	Sequence 17, Appl1
37	72	7.1	1370	5	PCT-US93-07370-17	Sequence 17, Appl1
38	72	7.1	1466	1	US-08-056-051-3	Sequence 3, Appl1
39	72	7.1	1466	2	US-07-928-611-19	Sequence 19, Appl1
40	72	7.1	1466	2	US-08-487-811A-19	Sequence 19, Appl1
41	72	7.1	1466	3	US-09-060-694-19	Sequence 19, Appl1
42	72	7.1	1466	3	US-09-378-074-19	Sequence 19, Appl1
43	72	7.1	1466	5	PCT-US93-07370-19	Sequence 19, Appl1
44	72	7.1	1610	1	US-08-056-051-5	Sequence 5, Appl1
45	72	7.1	1610	1	US-07-928-611-21	Sequence 21, Appl1

ALIGNMENTS

RESULT 1
US-09-013-634-1
Sequence 1, Application US/09013634
Patent No. 5945307
GENERAL INFORMATION:
APPLICANT: M. Alexandra Glucksmann and Keith Robinson
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,634
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2581 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 184..1194
US-09-013-634-1
Query Match 99.5%, Score 1009.2, DB 2, Length 2581,
Best Local Similarity 99.7%, Pred. No. 36-205,
Matches 1011, Conservative 0, Mismatches 3, Indels 0, Gaps 0;

RESULT 6
US-08-513-974B-31
Sequence 31, Application US/08513974B
Patent No. 6114139
GENERAL INFORMATION:
APPLICANT: Hinuma, Shuji
APPLICANT: Hosoya, Masaki
APPLICANT: Fujii, Ryo
APPLICANT: Ohtaki, Tetsuya
APPLICANT: Fukusumi, Shoji
APPLICANT: Ohgi, Kazuhiko
TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
TITLE OF INVENTION: PRODUCTION, AND USE THEREOF
NUMBER OF SEQUENCES: 380
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/513,974B
FILING DATE: 14-SEP-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP95/01599
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-093989
FILING DATE: 19-AUG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-057186
FILING DATE: 16-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-007177
FILING DATE: 20-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-326611
FILING DATE: 28-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-270017
FILING DATE: 02-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236357
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236356
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189274
FILING DATE: 11-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189273
FILING DATE: 11-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189272
FILING DATE: 11-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 45753
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:

LENGTH: 1110 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-513-974B-31
Query Match 7.8%; Score 79; DB 3; Length 1110;
Best Local Similarity 51.1%; Pred. No. 9.6e-08;
Matches 212; Conservative 0; Mismatches 200; Indels 3; Gaps 1;
QY 18 GGGCTTGGCGGGGCTACTGTGGGACAGATGGGCGTTCCTGCTGTCCAAACGGGCTGT 77
DB 180 GGGGCTGATGTCTGTCTTACAGAGCTGCGGTGGTGTGGGCTGTGGGCAATGCT 239
QY 78 GCTGCTGTGCTGTGACAGCGGAGCATCCGCGGCGAGCGCGGCTTCTACCT 137
DB 240 GCTGTGCTGTGTATCCGCGGGTGGCGCGGCTGTGACACAGTACAGACTTCTCTATCG 299
QY 138 GAACCTCAGCTGCGGGAACCTGTGTGACCGTGTGTCACATGCGCTCAGCGTGGCGG 197
DB 300 CAACCTGCGCTTGTTCGACAGTGTCTCATGTGACCGGCTGTGCGGCTCAGCGTGGCTA 359
QY 198 GCTGTGGCCAGCGGAGCGCGG--GGGACCGCTTGTGCGCTGTGCTGCTTCT 254
DB 360 TGCTTGAGCCACAGCGGCTGTGGGTGGCGCGGCTGTGACCTGTCTTCTTCT 419
QY 255 CGACACCTTCTGTGCTGCAACCTCATGTGACAGATGGCGCGGCTGACATGACGCGCTG 314
DB 420 GCAAGCGGTACCGTGTATGTGTGCTGTGACGCTCACCACATGCAAGTGAACGCTA 479
QY 315 GGTGGCGGTGTCTTCCGCTGTGAGCTACCGGGCAAGATCGCTCCGACGCGGCGCT 374
DB 480 CGTGCTGTGTGACACCGCTGTAGGGGCGCATCTGTGCTGCGCTCAGCGCTTGTGT 539
QY 375 CATGTGGCTTACAGCTGTGACAGCGGCTACCTTCCAGCGGCGGCTGCGC 429
DB 540 GCTGGCATGTGGGCGGTGTCCGCGGTGTGGCGGCTGCGCGCGGCTGACACC 594
RESULT 7
US-08-776-971-26
Sequence 26, Application US/08776971B
Patent No. 6228984
GENERAL INFORMATION:
APPLICANT: Hinuma, Shuji
APPLICANT: Habata, Yugo
APPLICANT: Kawamata, Yuji
APPLICANT: Hosoya, Masaki
APPLICANT: Fujii, Ryo
APPLICANT: Fukusumi, Shoji
APPLICANT: Kitada, Chieko
TITLE OF INVENTION: POLYPROTEINS, THEIR PRODUCTION AND USE
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776,971B
FILING DATE: 06-Feb-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP96/03821
FILING DATE: 28-DEC-1996

FILING DATE: 16-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-007177
FILING DATE: 20-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-326611
FILING DATE: 28-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-270017
FILING DATE: 02-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236357
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-236356
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189274
FILING DATE: 11-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189273
FILING DATE: 11-AUG-1945
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6-189272
FILING DATE: 11-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S.
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 45753
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 322:
SEQUENCE CHARACTERISTICS:
LENGTH: 1331 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 118..1227
US-08-513-974B-322

Query Match 7.8%; Score 79; DB 3; Length 1331;
Best Local Similarity 51.1%; Pred. No. 9.9e-08;
Matches 212; Conservative 0; Mismatches 200; Indels 3; Gaps 1;

18 GGGCTGAGCGGGGCTACTGTGTGGGACAGATGGGCGTCTCGCTGTCTCAACGCGTGT 77
Db GGGGCTATGCTGTGCTCTCAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356
297 GGGGCTATGCTGTGCTCTCAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356
QY GCTGTCTGTCTGT 137
Db GCTGT 416
357 GCTGT 416
QY GAACCTCAACGTCGAGGAACTGT 197
Db CAACCTGT 476
417 CAACCTGT 476
QY CGT 254
Db TGCTGT 536
477 TGCTGT 536
QY CGAAGCTTCTGT 314
Db GCAACCTTCTGT 596
537 GCAACCTTCTGT 596
QY GGT 374
Db CGT 656
597 CGT 656
QY CATGT 429
375 CATGT 429

Db 657 GCTGGCATGTGGGCGCTGTCCGCGGTGCTGGCGCTGTCCGCGCGCTGTGACACC 711

RESULT 11
US-08-776-971-103
Sequence 103, Application US/08776971B
Patent No. 6228984
GENERAL INFORMATION:
APPLICANT: Hinuma, Shuji
Habeata, Yugo
Kawamata, Yuji
Hosoya, Masaki
Fuji, Ryo
Fukusumi, Shoji
Kikada, Chieko
TITLE OF INVENTION: POLYPROTEINS, THEIR PRODUCTION AND USE
NUMBER OF SEQUENCES: 140
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776,971B
FILING DATE: 06-Feb-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP96/03821
FILING DATE: 28-DEC-1996
APPLICATION NUMBER: JP 7/343371
FILING DATE: 28-DEC-1995
APPLICATION NUMBER: JP 8/59419
FILING DATE: 15-MAR-1996
APPLICATION NUMBER: JP 8/211805
FILING DATE: 12-AUG-1996
APPLICATION NUMBER: JP 8/246573
FILING DATE: 18-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Conlin, David G.
REGISTRATION NUMBER: 27,026
REFERENCE/DOCKET NUMBER: 47176
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 1331 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 118..1227
OTHER INFORMATION:
SEQUENCE DESCRIPTION: SEQ ID NO: 103:
US-08-776-971-103

Query Match 7.8%; Score 79; DB 3; Length 1331;
Best Local Similarity 51.1%; Pred. No. 9.9e-08;
Matches 212; Conservative 0; Mismatches 200; Indels 3; Gaps 1;

18 GGGCTGAGCGGGGCTACTGTGTGGGACAGATGGGCGTCTCGCTGTCTCAACGCGTGT 77
Db GGGGCTATGCTGTGCTCTCAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356
297 GGGGCTATGCTGTGCTCTCAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356

Oy 78 GCTGCTTCGCTCCGCTGCGACAGCGCGAGCAATCCGCGCGCAGCGCGCGCGCTTCAACCT 137
 |||||
 Db 357 GCTGGTGCCTGCTGATTCGCGCGGCTGCGCGCGCTGCGACAAAGTGAAGCACTTCTCTCATCGG 416
 |||||
 Oy 138 GAACCTCAAGTCGCGGAACTGCTGTGCAACCGTGTCAACATGCGCTCAACGCTGAGCGCG 197
 |||||
 Db 417 CAACCTGAGCTGTGTCCGAAGTGTCTATATGAGCAACCGCTGTGTGCGCTCAAGCTTGCGCTA 476
 |||||
 Oy 198 GCTCGTGGCGACAGCGCGACCGCGCG--GAGCAACCGCTGTGTGCGCGCTGTGCTCTTCT 254
 |||||
 Db 477 TGCTTTGCGAGCAGCGCGGCTGTGGGTGTTGTGGCGCGCGCTGTGTGCAACCTGGTCTTCTTCT 536
 |||||
 Oy 255 CGAACACTTCTCGGCTGCGCCAACTTCATGCTCAAGATGCGCGCGCTACAGATCAACGCGCTG 314
 |||||
 Db 537 GCAGCGCGGCAACCTGTATATGTATGTGTCGGTGTTCACGCTACCAACCATGCAAGTGAACGCTA 596
 |||||
 Oy 315 GGTGGCCGAGGCTTTCGCGCTGAGCTAACCGGCGCAAGATGCGCGCTCCGCGACCGCGCGCT 374
 |||||
 Db 597 GCTCGTGTGCTGAGCAACCCGCTAGAGGGGCGAGCATCTGTGCGCGCTTCAAGCGCTCAACGCTGT 656
 |||||
 Oy 375 CATGTGGCTCTACACGCGCTGCAACCGCGCTCACTTTCAGACCGCGCGCGCTGCGC 429
 |||||
 Db 657 GCTGGCCATCTTGGGCGCTTTCGCGCGGTGCTGGCGCTGCGCGCTCGCGCGCTGTGCAACC 711
 |||||

RESULT 12
 US-09-576-290-103
 Sequence 103 Application US/09576290
 Patent No. 679491
 GENERAL INFORMATION:
 APPLICANT: Hinuma, Shuji
 APPLICANT: Habata, Yugo
 APPLICANT: Kawamata, Yuji
 APPLICANT: Hosoya, Masaki
 APPLICANT: Fujii, Ryo
 APPLICANT: Fukueumi, Shoji
 APPLICANT: Kikada, Chieko
 TITLE OF INVENTION: POLYPEPTIDES, THEIR PRODUCTION AND USE
 NUMBER OF SEQUENCES: 140
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: DIRE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
 STREET: 130 Water Street
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/576,290
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/776,971
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 7/343371
 FILING DATE: 28-DEC-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 8/59419
 FILING DATE: 15-MAR-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 8/211805
 FILING DATE: 12-AUG-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 8/246573
 FILING DATE: 18-SEP-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Conlin, David G.
 REGISTRATION NUMBER: 27, 026

```

? REFERENCE/DOCKET NUMBER: 47176
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 617-523-3400
? TELEFAX: 617-523-6440
? INFORMATION FOR SEQ ID NO: 103:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1331 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
?
? FEATURE:
? NAME/KEY: Coding Sequence
? LOCATION: 118...1227
? OTHER INFORMATION:
?
US-09-576-290-103

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Query Match	7.8%;	Score 79;	DB 4;	Length 1331;
Best Local Similarity	51.1%;	Pred. No. 9.9e-08;		
Matches 212;	Conservative 0;	Mismatches 200;	Indels 3;	Gaps 1;

[illegible]

RESULT 13
 US-08-540-650B-11
 ; Sequence 11, Application US/08540650B
 ; Patent No. 6399325
 ; GENERAL INFORMATION:
 ; APPLICANT: HINDMA, Shuji
 ; APPLICANT: FUJII, Ryo
 ; APPLICANT: FUKUSUMI, Shoji
 ; APPLICANT: OHTAKI, Tetsuya
 ; APPLICANT: HOSOYA, Masaki
 ; APPLICANT: OHGI, Kazuhiro
 ; APPLICANT: ONDA, Haruo
 ; TITLE OF INVENTION: GALANIN RECEPTOR PROTEIN, PRODUCTION AND USE THEREOF
 ; NUMBER OF SEQUENCES: 17
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN
 ; STREET: 130 WATER STREET
 ; CITY: BOSTON
 ; STATE: MA
 ; COUNTRY: US
 ; ZIP: 02109
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible

Db 1109 GCAAGTTCATCCATCTACTCTTCTTCAACCGGTTCATGCTGAGAGCATCTTCAACCCCTGGCGG 1168
Qy 296 CGCTACAGCATGACCGCTGGGTGAGCCGCTGCTTCCGCTAGCTACCGGCGCAAGATGC 355
Db 1169 CGATGTCCGTGAGACCGCTACTGAGCATGTCATCGCGGCGCTCTCTCTCTCTCAAGG 1228
Qy 356 GCGTCCGCGACGCGCGCTCATGCTGCTTACAGCTGCTGACGCGCTCACTTCCGAG 415
Db 1229 TGTCTCCCAACGCGCTGCTGAGCGCTGCTCATCTGAGCGCTGCTCATTTGCCAT---GG 1285
Qy 416 CCGCGCGGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 475
Db 1286 CCGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1345
Qy 476 GCAAGCGCGCGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 535
Db 1346 GCTGCGGAGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1405
Qy 536 TCAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 590
Db 1406 TCGGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1460

RESULT 15

US-08-985-090-3
Sequence 3, Application us/08985090
Patent No. 5885893

GENERAL INFORMATION:

APPLICANT: Andrew D.J. Goodearl
TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,090

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:

FILING DATE:
NAME: Jean M. Silveri
REGISTRATION NUMBER: 39,030

REFERENCE/DOCKET NUMBER: NMT-032

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 742-4214

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 1335 base pairs
TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS
LOCATION: 1..1335

US-08-985-090-3

Qy 8 GGTGGAGCGCGGCGCTGCGCGGCGCTACTGCTGAGGACGATGAGCGCTCTGCTGCTCA 67
Db 95 CTTGAGACCGCGGCTGCGCGGCGCTCACTGAGCGCTGCTCACTGAGGACGAGGCTGCTGAGCA 154
Qy 68 ACCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 127
Db 155 ACCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 211
Qy 128 TCTTCAACCTGAACTCAAGCTGAGGAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 187
Db 212 TCTTCTGCTCAACCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 271
Qy 188 CGCTGCGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 247
Db 272 ATGTACCTTACGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 331
Qy 248 CTTTCTGAGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 307
Db 332 TGTGATGAGCTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 391
Qy 308 ACCGCTGAGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 356
Db 392 ACCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 440

Search completed: July 5, 2005, 15:59:46
Job time : 212 secs

Query Match 7.3%; Score 73.8; DB 2; Length 1335;
Best Local Similarity 52.7%; Pred. No. 1.3e-06;
Matches 164; Conservative 0; Mismatches 162; Indels 3; Gaps 1;

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